

Case Assignment and Scheduling Record

Section 1 - Bureau of Records and Hearing Services Completes

Jocket No. 990188-EI Date Docketed: 02/18/1999 Title: Generic investigation into requirement for individual electric metering by investor-owned electric utilities pursuant to Rule 25-6.049(5)(a), F.A.C.
 Company: Florida Power & Light Company
 Florida Power Corporation
 Florida Public Utilities Company
 Gulf Power Company

Official Filing Date: _____ Expiration: _____
 Last Day to Suspend: _____

Referred to: APP CAF CCA CMP (ECR) GCL LEG PAI RGO SER
 ("()") indicates OPR _____ X _____ X _____

Section 2 - OPR Completes and returns to CCA in 10 workdays. Time Schedule

Program/Module A18

Staff Assignments

OPR Staff D Wheeler

Staff Counsel G Jaye

OCRs () _____

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Recommended assignments for hearing and/or deciding this case:

Full Commission X Commission Panel _____
 Hearing Examiner _____ Staff _____

Date filed with CCA: 12/24/2001

Initials: OPR _____
 Staff Counsel _____

WARNING: THIS SCHEDULE IS AN INTERNAL PLANNING DOCUMENT. IT IS TENTATIVE AND SUBJECT TO REVISION. FOR UPDATES CONTACT THE RECORDS SECTION: (850) 413-6770
 Current CASR revision level

4

1. Staff Recommendation
2. Agenda
3. Standard Order
4. Close Docket or Revise CASR
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Due Dates

Previous Current

	Previous	Current
1. Staff Recommendation	NONE	01/24/2002
2. Agenda	NONE	02/05/2002
3. Standard Order	NONE	02/25/2002
4. Close Docket or Revise CASR	NONE	03/25/2002
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Section 3 - Chairman Completes

Assignments are as follows:

- Hearing Officer(s)

Commissioners						Hrg. Exam.	Staff
ALL	JC	DS	JB	BZ	PL		
X							

- Prehearing Officer

Commissioners					ADM
JC	DS	JB	BZ	PL	
	X				

Where panels are assigned the senior Commissioner is Panel Chairman; the identical panel decides the case. Where one Commissioner, a Hearing Examiner or a Staff Member is assigned the full Commission decides the case.

Approved: [Signature]
 Date: 12/26/2001

Section 1 - Bureau of Records and Hearings Services Completes

Docket No. 990188-EI Date Docketed: 02/18/1999 Title: Generic investigation into requirement for individual electric metering by investor-owned electric utilities pursuant to Rule 25-6.049(5)(a), F.A.C.

Company: Florida Power & Light Company
 Florida Power Corporation
 Florida Public Utilities Company
 Gulf Power Company
 Tampa Electric Company

Official Filing Date: _____ Expiration: _____

Last Day to Suspend: _____

Referred to:

("C)" indicates OPR)

AUS	CAF	CCA	CMP	(ECR)	EXT	GCL	MMS	PIF
				X		X		

Section 2 - OPR Completes and returns to CCA in 10 workdays.

Time Schedule

Program Module A18

**WARNING: THIS SCHEDULE IS AN INTERNAL PLANNING DOCUMENT
 IT IS TENTATIVE AND SUBJECT TO REVISION.
 FOR UPDATES CONTACT THE RECORDS SECTION: (850) 413-6770**

Staff Assignments

OPR Staff D Wheeler

Staff Counsel M Helton

OCRs

	Current CASR revision level	Due Dates	
		Previous	Current
12	1. Submit Rulemaking Request to GCL	07/31/2003	10/15/2003
	2. Revised CASR Due	09/19/2003	12/31/2003
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Recommended assignments for hearing and/or deciding this case:

Full Commission Commission Panel _____
 Hearing Examiner _____ Staff _____

Date filed with CCA: 10/01/2003

Initials: OPR _____
 Staff Counsel _____

Section 3 - Chairman Completes

Assignments are as follows:

- Hearing Officer(s)

Commissioners						Hrg	Staff
ALL	JB	DS	BZ	BD	DV	Exam	
X							

- Prehearing Officer

Commissioners					ADM
JB	DS	BZ	BD	DV	
	X				

Where panels are assigned the senior Commissioner is Panel Chairman: the identical panel decides the case.

Where one Commissioner, a Hearing Examiner or a Staff Member is assigned the full Commission decides the case.

Approved: [Signature]
 Date: Pending 10/6/03

Section 1 - Bureau of Records and He 19 Services Completes

Docket No. 990188-EI Date Docketed: 02/18/1999 Title: Generic investigation into requirement for individual electric metering by investor-owned electric utilities pursuant to Rule 25-6.049(5)(a), F.A.C.

Company: Florida Power & Light Company
 Florida Power Corporation
 Florida Public Utilities Company
 Gulf Power Company
 Tampa Electric Company

Official Filing Date: _____ Expiration: _____
 Last Day to Suspend: _____
 Referred to: _____
 ("O" indicates OPR)

AUS	CAF	CCA	CMP	(ECR)	FLL	GCL	MMS	PIF
				X		X		

Section 2 - OPR Completes and returns to CCA in 10 workdays. Time Schedule

Program Module A18

**WARNING: THIS SCHEDULE IS AN INTERNAL PLANNING DOCUMENT
 IT IS TENTATIVE AND SUBJECT TO REVISION.
 FOR UPDATES CONTACT THE RECORDS SECTION: (850) 413-6770**

Staff Assignments

OPR Staff D Wheeler

Staff Counsel M Helton

OCRs

	Due Dates	Due Dates	
		Previous	Current
12 Current CASR revision level			
1. Revised CASR Due		12/31/2003	03/31/2004
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Recommended assignments for hearing and/or deciding this case:

Full Commission X Commission Panel _____
 Hearing Examiner _____ Staff _____

Date filed with CCA: 10/01/2003

Initials: OPR _____
 Staff Counsel _____

Section 3 - Chairman Completes Assignments are as follows:

- Hearing Officer(s)

Commissioners						Hrg	Staff
ALL	BZ	DS	JB	BD	DV	Exam	
X							

- Prehearing Officer

Commissioners					ADM
BZ	DS	JB	BD	DV	
	X				

Where panels are assigned the senior Commissioner is Panel Chairman: the identical panel decides the case.
 Where one Commissioner, a Hearing Examiner or a Staff Member is assigned the full Commission decides the case.

Approved: BIB/pms
 Date: 10/06/2003

Section 1 - Bureau of Records Completes

Docket No. 990188-EI Date Docketed: 02/18/1999 Title: Generic investigation into requirement for individual electric metering by investor-owned electric utilities pursuant to Rule 25-6.049(5)(a), F.A.C.

Company: Florida Power & Light Company
 Florida Power Corporation
 Florida Public Utilities Company
 Gulf Power Company
 Tampa Electric Company

Official Filing Date: _____ Expiration: _____
 Last Day to Suspend: _____

Referred to: _____
 ("O" indicates OPR)

CCA	CMP	(ECR)	GCL	PIF	RCA	SCR	SGA
		X	X				

Section 2 - OPR Completes and returns to CCA in 10 workdays. Time Schedule

Program Module <u>A18</u>		WARNING: THIS SCHEDULE IS AN INTERNAL PLANNING DOCUMENT IT IS TENTATIVE AND SUBJECT TO REVISION. FOR UPDATES CONTACT THE RECORDS SECTION: (850) 413-6770		
<u>Staff Assignments</u>				
<u>OPR Staff</u>	<u>D Wheeler</u>	<input checked="" type="checkbox"/> 13	Current CASR revision level	Due Dates Previous Current
		1.	Staff Recommendation	NONE 08/18/2005
		2.	Agenda	NONE 08/30/2005
		3.	Standard Order	NONE 09/19/2005
		4.	Close Docket or Revise CASR	NONE 10/20/2005
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<u>Staff Counsel</u>	<u>K Fleming</u>	8.		
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Section 3 - Chairman Completes Assignments are as follows:

- Hearing Officer(s)

Commissioners						Hrg Exam	Staff
ALL	BZ	DS	BD	ED	--		
X							

Prehearing Officer

Commissioners					ADM
BZ	DS	BD	ED	--	
	X				

Where panels are assigned the senior Commissioner is Panel Chairman:
 the identical panel decides the case.
 Where one Commissioner, a Hearing Examiner or a Staff Member is
 assigned the full Commission decides the case.

Approved: BB/aw
 Date: 07/01/2005

Section 1 - Bureau of Records Complete

Docket No. 990188-EI Date Docketed: 02/18/1999 Title: Generic investigation into requirement for individual electric metering by investor-owned electric utilities pursuant to Rule 25-6.049(5)(a), F.A.C.

Company: Florida Power & Light Company
Florida Power Corporation
Florida Public Utilities Company
Gulf Power Company
Tampa Electric Company

Official Filing Date: _____ Expiration: _____
 Last Day to Suspend: _____

Referred to:

CCA	CMP	(ECR)	GCL	PIF	RCA	SCR	SGA
		X	X				

("O" indicates OPR)

Section 2 - OPR Completes and returns to CCA in 10 workdays.

Time Schedule

Program Module A18

WARNING: THIS SCHEDULE IS AN INTERNAL PLANNING DOCUMENT
 IT IS TENTATIVE AND SUBJECT TO REVISION.
 FOR UPDATES CONTACT THE RECORDS SECTION: (850) 413-6770

Staff Assignments

OPR Staff	D Wheeler	14	Current CASR revision level	Due Dates	
				Previous	Current
		1.	Staff Recommendation	08/18/2005	09/08/2005
		2.	Agenda	08/30/2005	09/20/2005
		3.	Standard Order	09/19/2005	10/10/2005
		4.	Close Docket or Revise CASR	10/20/2005	11/10/2005
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Staff Counsel	K Fleming	8.			
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Recommended assignments for hearing and/or deciding this case:

Full Commission Commission Panel
 Hearing Staff

Date filed with CCA: 08/18/2005

Initials OPR _____
 Staff Counsel _____

Section 3 - Chairman Completes

Assignments are as follows:

- Hearing Officer(s)

Commissioners						Hrg Exam	Staff
ALL	BZ	DS	BD	ED	--		
X							

Prehearing Officer

Commissioners					ADM
BZ	DS	BD	ED	--	
	X				

Where panels are assigned the senior Commissioner is Panel Chairman: the identical panel decides the case.
 Where one Commissioner, a Hearing Examiner or a Staff Member is assigned the full Commission decides the case.

Approved: BB/ans
 Date: Pending 8/29/05



February 25, 1999

Blanca Bayó, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

RECEIVED-FPSC
99 FEB 26 AM 10:32
RECORDS AND
REPORTING

Re: 990188-EI Generic Investigation into requirement for individual
Electric metering

Dear Ms. Bayó:

Please add LEAF as an interested party in this docket and include us on notice and
service lists. Thank you.

Sincerely,

Gail Kamaras, Director
Energy Advocacy Program

c: J. Jenkins, Director, Electric & Gas Division

Done 2/26/99

DOCUMENT NUMBER - DATE
08317 SEP 13 98
FPSC-COMMISSION CLERK



FECA

Florida Electric Cooperatives Association, Inc.

2916 Apalachee Parkway
P.O. Box 590
Tallahassee, Florida 32302
(850) 877-6166
FAX: (850) 656-5485

February 25, 1999

Ms. Blanca S. Bayo, Director
Division of Records & Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0870

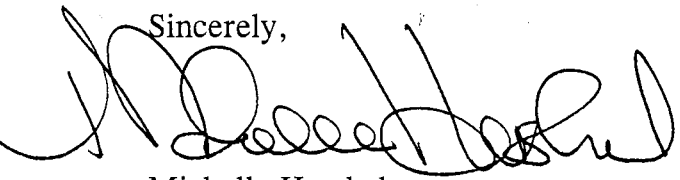
Dear Ms. Bayo:

Please accept this letter as our official request to be put on the mailing list for the following docket(s):

Docket No. 990188-EI

Thank you for your assistance in this matter.

Sincerely,


Michelle Hershel
Director of Regulatory
Services

MH/hd

Done 2/26/99

RECEIVED-TPSC
99 FEB 26 AM 8:48
MAIL ROOM
RECORDS AND REPORTING
99 FEB 26 AM 10:30

RECEIVED-FPSC

M E M O R A N D U M

99 MAR 10 PM 1:48

MARCH 10, 1999

RECORDS AND
REPORTING

TO: DIVISION OF RECORDS AND REPORTING

FROM: DIVISION OF LEGAL SERVICES (JAYE) *RUE*

RE: DOCKET NO. 990188-EI - GENERIC INVESTIGATION INTO THE
REQUIREMENT FOR INDIVIDUAL ELECTRIC METERING BY INVESTOR-
OWNED ELECTRIC UTILITIES PURSUANT TO RULE 25-6.049(5)(A),
FLORIDA ADMINISTRATIVE CODE.

Attached is a NOTICE OF STAFF WORKSHOP to be issued in the
above-referenced docket. (Number of pages in notice - 3)

GAJ/js

Attachment

cc: Division of Electric and Gas (Wheeler, Goad)

I:990188nw.gaj

See 1, 2

forwarded - 83/16

FPSC, CLK - CORRESPONDENCE
 Administrative Parties Consumer
DOCUMENT NO. 08317-06
DISTRIBUTION: _____

MOYLE, FLANIGAN, KATZ, KOLINS, RAYMOND & SHEEHAN, P.A.
ATTORNEYS AT LAW

210 South Monroe Street
Tallahassee, Florida 33401-4025

Telephone: (850) 681-3828
Facsimile: (850) 681-8788

JON C. MOYLE, JR.
E-mail: jmoylejr@moylelaw.com

Other Offices:
West Palm Beach, FL
(561) 659-7900
Palm Beach Gardens, FL
(561) 625-6480

April 12, 1999

RECEIVED-FPSC
99 APR 14 AM 10:34
RECORDS AND
REPORTING

Ms. Blanca S. Bayo, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

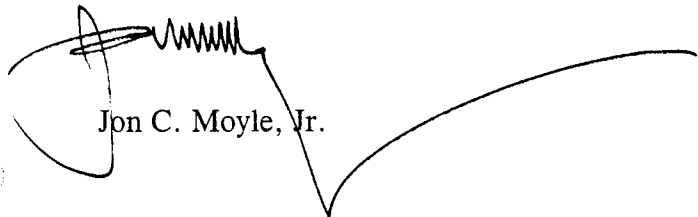
**Re: Generic Investigation Into the Requirement for Individual Electric Metering
by Investor-Owned Electric Utilities Pursuant to Rule 25-6.049(5)(a), Florida
Administrative Code; Docket No. 990188-EI**

Dear Ms. Bayo:

This is to request that Valencia Area Condominium Association, Inc. and Point Management, Inc. be added as an interested party in the above-referenced docket and that these entities be placed on all notice and service lists. All such correspondence may be sent to me as counsel of record.

Thank you in advance for your consideration of this matter.

Sincerely,



Jon C. Moyle, Jr.

JCM/dys

Done 4/15/99

MAIL ROOM
60 6 MW 41 RJV 66
99 APR 14 AM 9:09

NOT RECORDED
APR 14 1999
FBI - TALLAHASSEE

AUSLEY & MCMULLEN

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET
P.O. BOX 391 (ZIP 32302)
TALLAHASSEE, FLORIDA 32301
(850) 224-9115 FAX (850) 222-7560

July 14, 1999

HAND DELIVERED

RECORDS AND
REPORTING

JUL 14 PM 3:38

RECEIVED-FPSC

Ms. Grace A. Jaye
Staff Attorney
Division of Legal Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Generic investigation into requirement for individual electric metering by investor-owned electric utilities pursuant to Rule 25-6.049(5)(a), F.A.C.
FPSC Docket No. 990188-EI

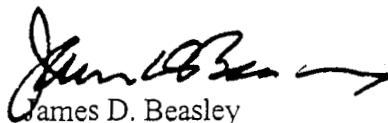
Dear Ms. Jaye:

Enclosed are five copies of Tampa Electric Company's response to your data request dated June 9, 1999.

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,


James D. Beasley

JDB/pp
Enclosures

cc: Blanca S. Bayo (w/enc.)
Mark Laux (w/enc.)
Dave Wheeler (w/enc.)
Reese Goad (w/enc.)

**TAMPA ELECTRIC COMPANY
DOCKET NO. 990188-EI
DATA REQUEST NO. 1
PAGE 1 of 1**

1. Does your billing system identify residential customers by housing type? If so, list each type, with a brief description of what it includes.
 - A. The Tampa Electric Company ("Tampa Electric") billing system identifies three types of housing for individually metered residential customers.
 1. Single Family Homes
 2. Apartments/Condos (Includes Duplexes, etc.)
 3. Mobile Homes

In addition commonly-owned facilities in condos and cooperative apartment buildings qualify for a residential rate.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 990188-EI
DATA REQUEST NO. 2
PAGE 1 of 3**

2. For each housing type, provide:
 - a. The total current number of accounts.
 - b. The average per unit monthly kwh consumption based on the most recently available 12 months' data.
- A. Please see attached.

Current Number of Residential Customers
As of May 1999 (Month End)

Rate Classification:	Number of Residential Customers:
• Single Family Homes	273,424
• Apartments/Condominium:	139,608
• Mobile Homes:	58,889
• Condominium Common Use:	49
	Total = 471,970

BASED ON 1998 ANNUAL REVENUE:
Average KWH Consumption for Residential Customers
January 1998 thru December 1998

	Average Monthly Customer Base	Average Monthly kWh
Single Family Homes:	268,110	1,522
Apartments & Condominium:	136,345	832
Mobile Homes:	59,199	1,069
Condominium Common Use:	49	1,278

**TAMPA ELECTRIC COMPANY
DOCKET NO. 990188-EI
DATA REQUEST NO. 3
PAGE 1 of 1**

3. If your billing system does not specifically identify RV park units, indicate which group they would be included in.
 - a. Provide an estimate of the number of RV park unit residential accounts, and their average kwh consumption based on the most recently available 12 months of data.
 - b. Estimate the number of these accounts which take service under residential load management, if applicable.
 - c. Estimate the number of RV park master metered customers which are billed under a commercial rate schedule.

- A. An RV park unit that is individually metered is considered a mobile home and receives a residential rate. An RV park which master meters receives a commercial rate. This is based on the recognition of the characteristic "overnight occupancy" of the sites in the park (as opposed to permanent residency). This is in accordance with Rule 25-6.049(5)(a)4 F.A.C. which exempts RV park areas which are for overnight occupancy.
 - a. There are no RV park units that take service as individual residential customers.
 - b. None of these accounts take service under residential load management.
 - c. Tampa Electric's billing system does not specifically identify RV Park facilities, therefore a precise number of RV Parks in Tampa Electric's service territory is difficult to ascertain. However, through a cursory inquiry of field personnel, Tampa Electric has identified eight (8) RV Parks billed under our commercial rate schedule.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 990188-EI
DATA REQUEST NO. 4
PAGE 1 of 1**

4. Describe the manner in which you apply the term "overnight occupancy" in determining the exemption from the individual metering requirements in Rule 25-6.049(5)(a)(4), F.A.C. Have you experienced difficulty in administering this section of the rule?
 - A. In determining the appropriate application of "overnight occupancy" in relation to the individual metering requirements, Tampa Electric first evaluates the level of service requested by the customer in conjunction with the property description and the type of customer/business that is requesting service. If the customer's request and the apparent use of the property are consistent with the "overnight occupancy" exemption in the rule, then the facility is allowed to be master metered. If the customer's request and the apparent use of the property do not match up, Tampa Electric then reviews the facility's licenses and zoning records for confirmation.

Generally, Tampa Electric has not had difficulty administering this section of the rule. However, there are times in which new customers with unusual circumstances lead to a review of the application of the rule. For example, in Tampa Electric's service territory there has been a recent influx of extended care facilities that have varying levels of apartment style and assisted care living in the same complex. In these situations, Tampa Electric reviews the rule and addresses these situations as they occur.

TAMPA ELECTRIC COMPANY
DOCKET NO. 990188-EI
DATA REQUEST NO. 5
PAGE 1 of 1

5. Are you aware of any multi-unit residential buildings in your territory which are currently served by a master meter? If so, how many have you identified?
 - A. Yes. Tampa Electric's billing system does not specifically identify multi-unit residential buildings, therefore a precise number of mater-metered, multi-unit residential buildings is difficult to ascertain. However, through a cursory inquiry of field personnel, Tampa Electric has identified thirty-six (36) mater-metered, multi-unit residential buildings.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 990188-EI
DATA REQUEST NO. 6
PAGE 1 of 1**

6. Are these facilities billed under a commercial or a residential rate?
 - A. These facilities are billed under a commercial rate.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 990188-EI
DATA REQUEST NO. 7
PAGE 1 of 20**

7. Using the latest available load research results, provide comparative load shapes and an analysis comparing the 12 coincident peak demand responsibility for each residential class housing type separately, to the extent this information is available. (i.e. based on single family, multi family, mobile homes, etc.)
 - A. Please see attached.

Coincident Peak Demand Per Customer
1997

	Peak Date	Peak Hour	Single Family	Multi-Family	Mobile Home
January	18	900	5.21	3.01	4.37
February	12	800	3.49	1.45	3.10
March	3	1900	2.72	1.52	1.93
April	22	1800	2.58	1.36	2.43
May	27	1700	3.83	1.48	2.96
June	18	1700	3.89	1.96	2.89
July	3	1600	3.92	1.88	3.19
August	18	1700	3.90	1.82	3.04
September	17	1700	3.78	1.90	3.07
October	1	1700	3.50	1.70	2.86
November	1	1400	2.46	1.02	1.91
December	15	2000	2.23	1.04	2.09
Average Demand (KW)			3.46	1.68	2.82

TAMPA ELECTRIC COMPANY
DOCKET NO. 990188-EI
DATA REQUEST NO. 7
PAGE 3 of 20

January
Coincident Peak Demand Per Customer
Peak: 01/19/97 09:00

February
Coincident Peak Demand Per Customer
Peak: 02/12/97 08:00

	Single Family	Multi-Family	Mobile Home
1	4.14	2.53	3.74
2	4.18	2.56	3.79
3	4.24	2.61	3.90
4	4.59	2.71	4.04
5	4.69	2.88	4.08
6	4.99	2.65	4.51
7	5.06	2.82	4.51
8	5.46	2.74	4.63
9	5.21	3.01	4.37
10	5.03	2.64	3.84
11	4.49	2.68	3.60
12	3.85	2.44	2.36
13	3.16	1.87	1.78
14	2.82	1.60	1.54
15	2.41	1.64	1.32
16	2.34	1.36	1.10
17	2.47	1.18	1.18
18	2.67	1.85	1.33
19	3.08	1.53	1.88
20	3.14	1.58	2.26
21	3.06	2.01	2.46
22	3.08	1.72	2.36
23	2.80	1.67	2.33
24	2.60	1.47	2.55

	Single Family	Multi-Family	Mobile Home
1	1.77	0.96	2.01
2	1.74	1.08	2.06
3	1.97	1.05	2.15
4	2.03	1.14	2.40
5	2.21	1.45	2.24
6	2.87	1.37	2.83
7	3.47	1.71	3.01
8	3.49	1.45	3.10
9	2.85	1.09	2.96
10	2.44	1.14	2.08
11	1.96	1.31	1.56
12	1.59	1.09	1.14
13	1.40	0.81	-0.92
14	1.30	0.74	0.84
15	1.28	0.70	1.14
16	1.20	0.60	1.09
17	1.41	0.66	1.14
18	1.62	0.91	1.31
19	1.96	0.93	1.31
20	1.81	0.95	1.54
21	1.92	0.99	1.46
22	1.71	0.78	1.22
23	1.46	0.89	1.14
24	1.20	0.77	0.97

March
Coincident Peak Demand Per Customer
Peak: 03/03/97 19:00

	Single Family	Multi-Family	Mobile Home
1	1.32	1.02	0.76
2	1.09	0.71	0.67
3	1.00	0.71	0.60
4	0.98	0.76	0.58
5	0.90	0.68	0.83
6	1.07	0.80	0.58
7	1.50	1.15	0.71
8	1.39	0.97	0.95
9	1.48	0.72	0.93
10	1.49	0.81	1.10
11	1.54	0.88	1.36
12	1.88	1.00	1.57
13	2.10	0.89	1.77
14	2.07	0.93	1.92
15	2.14	1.10	2.18
16	2.40	1.21	2.47
17	2.58	1.34	2.33
18	2.56	1.41	2.03
19	2.72	1.52	1.93
20	2.79	1.65	1.97
21	2.52	1.36	1.74
22	2.41	1.18	1.53
23	2.02	1.27	1.35
24	1.58	1.32	0.93

April
Coincident Peak Demand Per Customer
Peak: 04/22/97 18:00

	Single Family	Multi-Family	Mobile Home
1	1.21	0.77	0.65
2	0.97	0.65	0.54
3	0.89	0.55	0.56
4	0.83	0.51	0.54
5	0.88	0.48	0.53
6	0.99	0.57	0.62
7	1.29	0.93	0.74
8	1.49	1.11	0.97
9	1.27	0.82	0.93
10	1.25	0.87	0.99
11	1.41	0.90	1.34
12	1.45	1.05	1.65
13	1.57	0.83	1.87
14	1.92	1.05	2.11
15	1.93	0.95	2.17
16	2.12	0.98	2.14
17	2.35	1.26	2.38
18	2.58	1.36	2.43
19	2.73	1.34	2.47
20	2.75	1.27	2.19
21	2.78	1.40	1.99
22	2.69	1.40	1.80
23	2.32	1.29	1.42
24	1.92	1.25	1.19

May
 Coincident Peak Demand Per Customer
 Peak: 05/27/97 17:00

	Single Family	Multi-Family	Mobile Home
1	1.96	0.93	1.13
2	1.68	0.87	0.97
3	1.57	0.85	0.84
4	1.43	0.73	0.66
5	1.33	0.69	0.71
6	1.38	0.78	0.75
7	1.71	0.88	0.90
8	1.67	0.84	0.93
9	1.69	0.77	1.11
10	1.95	0.85	1.49
11	2.20	1.00	1.87
12	2.68	0.98	2.07
13	2.89	1.11	2.35
14	3.09	1.14	2.48
15	3.26	1.26	2.60
16	3.68	1.43	2.94
17	3.83	1.45	2.96
18	3.95	1.60	2.84
19	3.95	1.73	2.81
20	3.62	1.54	2.71
21	3.51	1.33	2.14
22	3.37	1.21	1.93
23	2.97	1.25	1.79
24	2.43	1.22	1.51

June
 Coincident Peak Demand Per Customer
 Peak: 06/18/97 17:00

	Single Family	Multi-Family	Mobile Home
1	2.23	1.59	1.39
2	1.92	1.35	1.19
3	1.76	1.30	1.17
4	1.73	1.24	1.04
5	1.69	1.09	0.99
6	1.71	1.08	0.91
7	1.90	1.13	1.03
8	1.99	1.18	1.31
9	2.06	1.15	1.54
10	2.31	1.11	1.80
11	2.56	1.27	2.09
12	3.00	1.45	2.20
13	3.35	1.52	2.41
14	3.49	1.48	2.60
15	3.74	1.48	2.78
16	3.96	1.79	2.81
17	3.89	1.96	2.89
18	3.85	1.97	2.97
19	3.90	2.01	2.66
20	3.88	2.12	2.60
21	3.93	2.32	2.61
22	3.72	2.05	2.31
23	3.29	1.85	1.86
24	2.77	1.79	1.51

July
Coincident Peak Demand Per Customer
Peak 07/03/97 16:00

	Single Family	Multi-Family	Mobile Home
1	2.45	1.54	1.76
2	2.12	1.39	1.64
3	2.03	1.31	1.47
4	1.99	1.20	1.42
5	1.97	1.21	1.43
6	1.91	1.27	1.42
7	2.05	1.31	1.50
8	2.13	1.31	1.37
9	2.22	1.05	1.58
10	2.63	1.09	2.00
11	2.90	1.34	2.60
12	3.01	1.58	2.50
13	3.31	1.38	2.91
14	3.55	1.63	3.08
15	3.92	1.77	3.36
16	3.92	1.88	3.19
17	4.11	2.10	3.00
18	4.03	2.34	2.93
19	4.10	2.25	2.75
20	3.85	2.16	2.63
21	3.58	2.12	2.56
22	3.42	1.98	2.33
23	3.12	2.10	2.24
24	2.76	2.04	1.94

August
Coincident Peak Demand Per Customer
Peak: 08/18/97 17:00

	Single Family	Multi-Family	Mobile Home
1	2.42	1.41	1.49
2	2.15	1.15	1.24
3	1.95	1.05	1.12
4	1.81	1.02	1.10
5	1.69	0.98	0.99
6	1.86	0.99	0.91
7	1.85	1.01	0.94
8	1.86	0.99	1.01
9	1.97	1.01	1.38
10	2.35	1.15	1.61
11	2.74	1.06	2.28
12	3.00	1.25	2.52
13	3.16	1.36	2.87
14	3.44	1.72	2.98
15	3.55	1.65	3.12
16	3.76	1.76	3.13
17	3.90	1.82	3.04
18	3.93	1.79	2.89
19	3.89	1.57	2.49
20	3.62	1.64	2.37
21	3.49	1.83	2.23
22	3.53	1.61	2.07
23	2.97	1.40	1.68
24	2.65	1.25	1.56

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September
Coincident Peak Demand Per Customer
Peak: 09/17/97 17:00

	Single Family	Multi-Family	Mobile Home
1	1.87	1.07	0.90
2	1.62	0.98	0.93
3	1.58	0.90	0.87
4	1.44	0.88	0.82
5	1.41	0.93	0.80
6	1.49	0.88	0.80
7	1.75	1.08	0.99
8	1.83	0.98	1.03
9	1.70	0.96	1.15
10	1.80	0.93	1.53
11	2.09	1.07	2.00
12	2.36	1.28	2.12
13	2.69	1.56	2.41
14	3.06	1.72	2.71
15	3.39	1.52	2.82
16	3.55	1.62	2.95
17	3.78	1.90	3.07
18	3.75	1.98	2.91
19	3.64	1.89	2.86
20	3.61	1.93	2.48
21	3.50	1.75	2.03
22	3.09	1.49	1.84
23	2.64	1.48	1.49
24	2.26	1.22	1.24

October
Coincident Peak Demand Per Customer
Peak: 10/01/97 17:00

	Single Family	Multi-Family	Mobile Home
1	1.48	1.04	1.02
2	1.33	1.07	0.86
3	1.29	0.95	0.84
4	1.13	0.83	0.84
5	1.12	0.82	0.76
6	1.27	0.91	0.78
7	1.59	1.27	0.98
8	1.57	1.13	0.99
9	1.54	0.93	0.86
10	1.73	0.92	1.06
11	1.92	0.94	1.40
12	2.18	1.17	1.98
13	2.40	1.23	2.13
14	2.68	1.44	2.20
15	3.03	1.39	2.51
16	3.22	1.54	2.70
17	3.50	1.70	2.86
18	3.65	1.58	2.81
19	3.48	1.96	2.54
20	3.42	2.22	2.30
21	3.28	1.89	1.84
22	3.06	1.63	1.63
23	2.34	1.36	1.36
24	1.90	1.22	1.09

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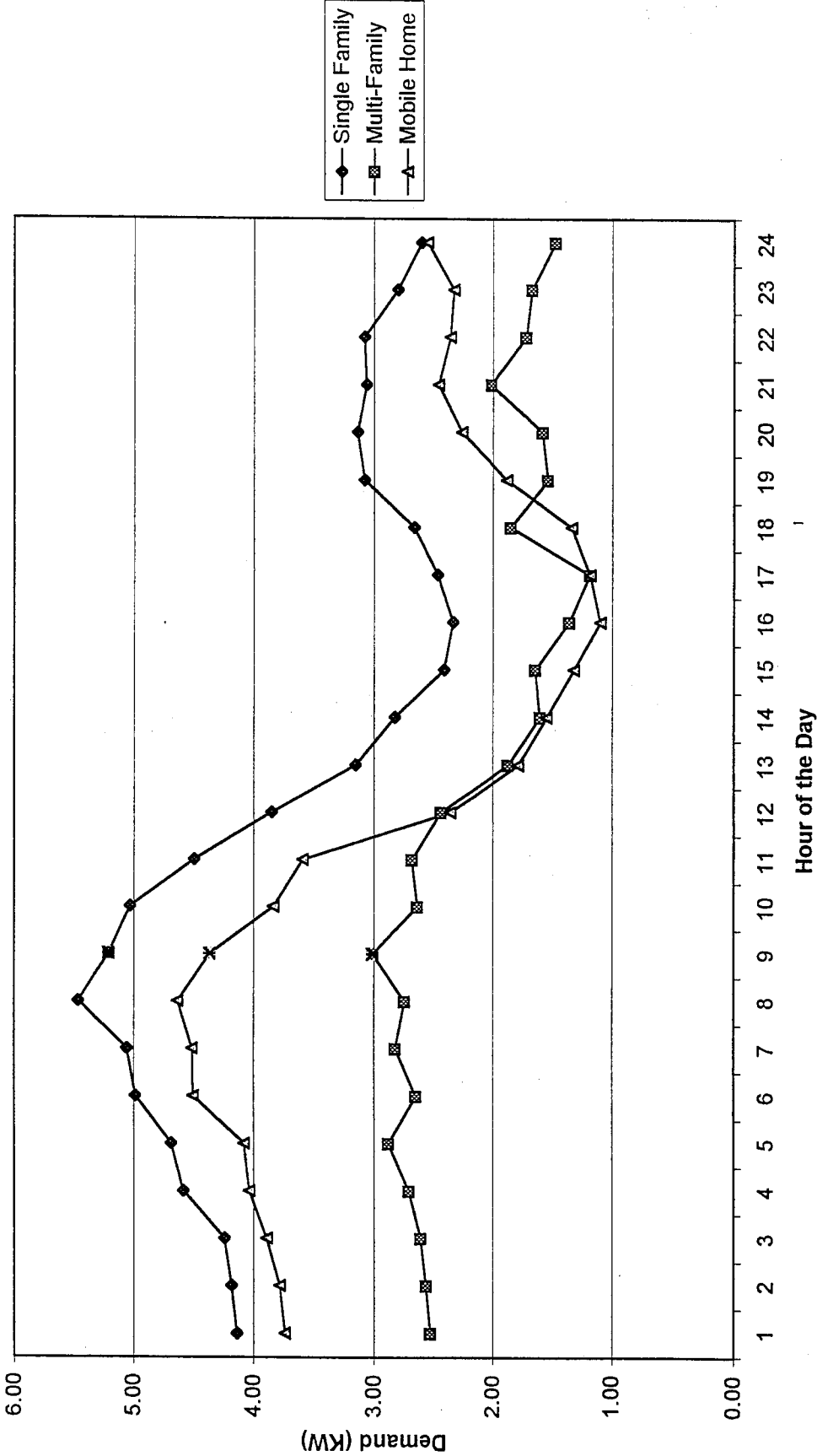
November
Coincident Peak Demand Per Customer
Peak: 11/01/97 14:00

	Single Family	Multi-Family	Mobile Home
1	1.07	0.66	0.76
2	0.96	0.68	0.62
3	0.91	0.54	0.64
4	0.96	0.63	0.65
5	1.00	0.71	0.74
6	0.96	0.74	0.80
7	1.02	0.83	0.80
8	1.18	0.90	0.83
9	1.65	0.95	0.84
10	1.84	1.21	1.18
11	1.94	1.15	1.49
12	2.18	0.94	1.75
13	2.35	1.05	1.93
14	2.46	1.02	1.91
15	2.44	1.03	2.16
16	2.65	1.21	1.77
17	2.59	1.33	1.59
18	2.57	1.32	1.59
19	2.66	1.62	1.67
20	2.59	1.33	1.62
21	2.28	1.02	1.48
22	2.11	1.17	1.33
23	1.86	1.16	1.12
24	1.63	1.22	1.03

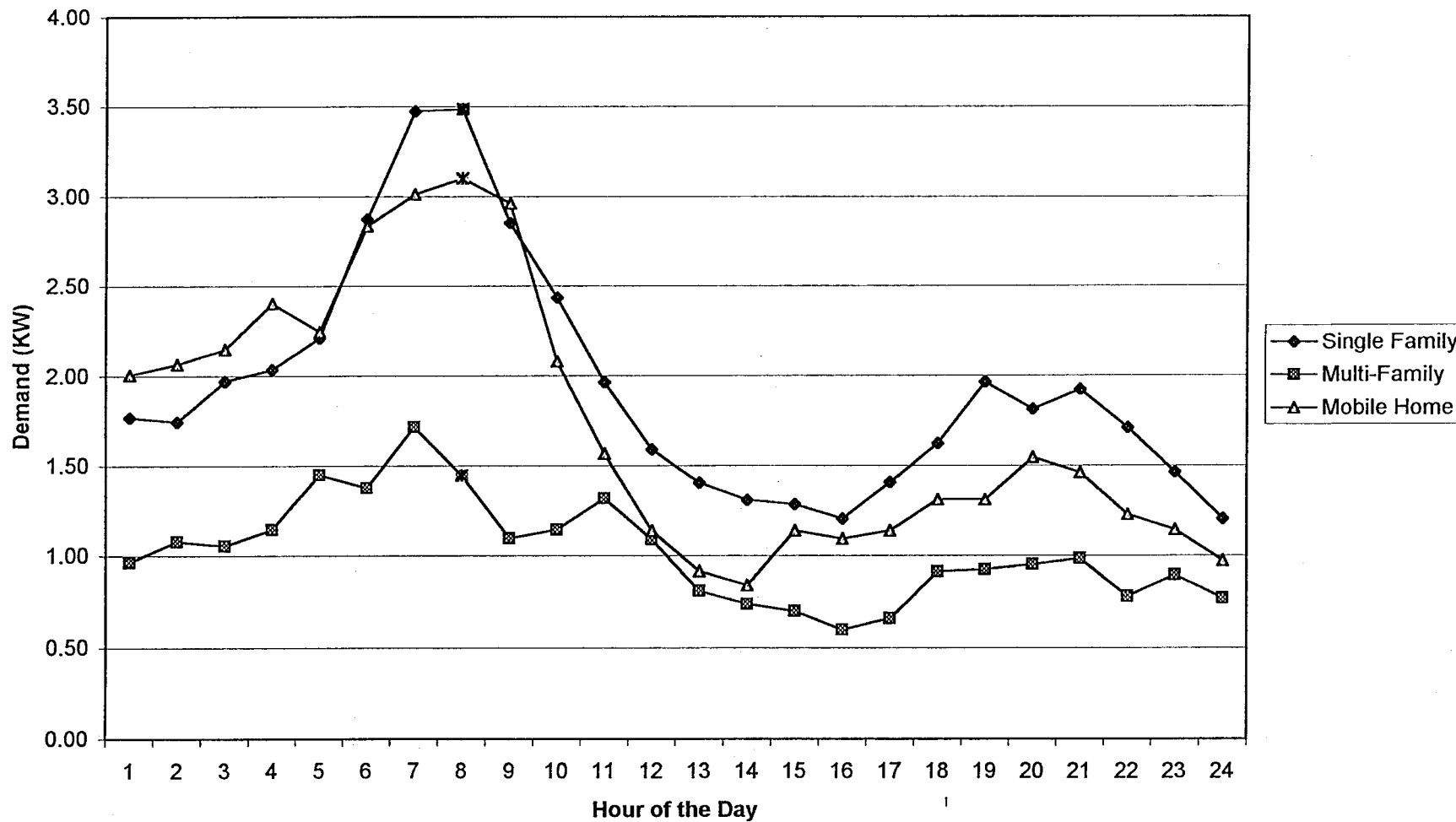
December
Coincident Peak Demand Per Customer
Peak: 12/15/97 20:00

	Single Family	Multi-Family	Mobile Home
1	1.85	0.87	1.35
2	1.63	0.90	1.25
3	1.55	0.84	1.42
4	1.57	0.72	1.74
5	1.83	0.77	1.66
6	2.06	1.05	1.72
7	2.60	1.41	2.02
8	3.06	1.48	2.13
9	2.74	0.94	2.03
10	2.51	0.98	2.17
11	2.15	0.93	2.04
12	2.28	1.08	1.86
13	2.35	1.00	2.25
14	2.30	1.01	2.40
15	2.23	1.04	2.09
16	2.36	1.20	1.97
17	2.58	1.08	2.20
18	2.96	1.42	2.84
19	3.35	1.66	3.14
20	3.59	1.90	2.82
21	3.72	1.99	3.19
22	3.47	1.81	3.19
23	3.02	1.49	2.57
24	2.66	1.45	2.31

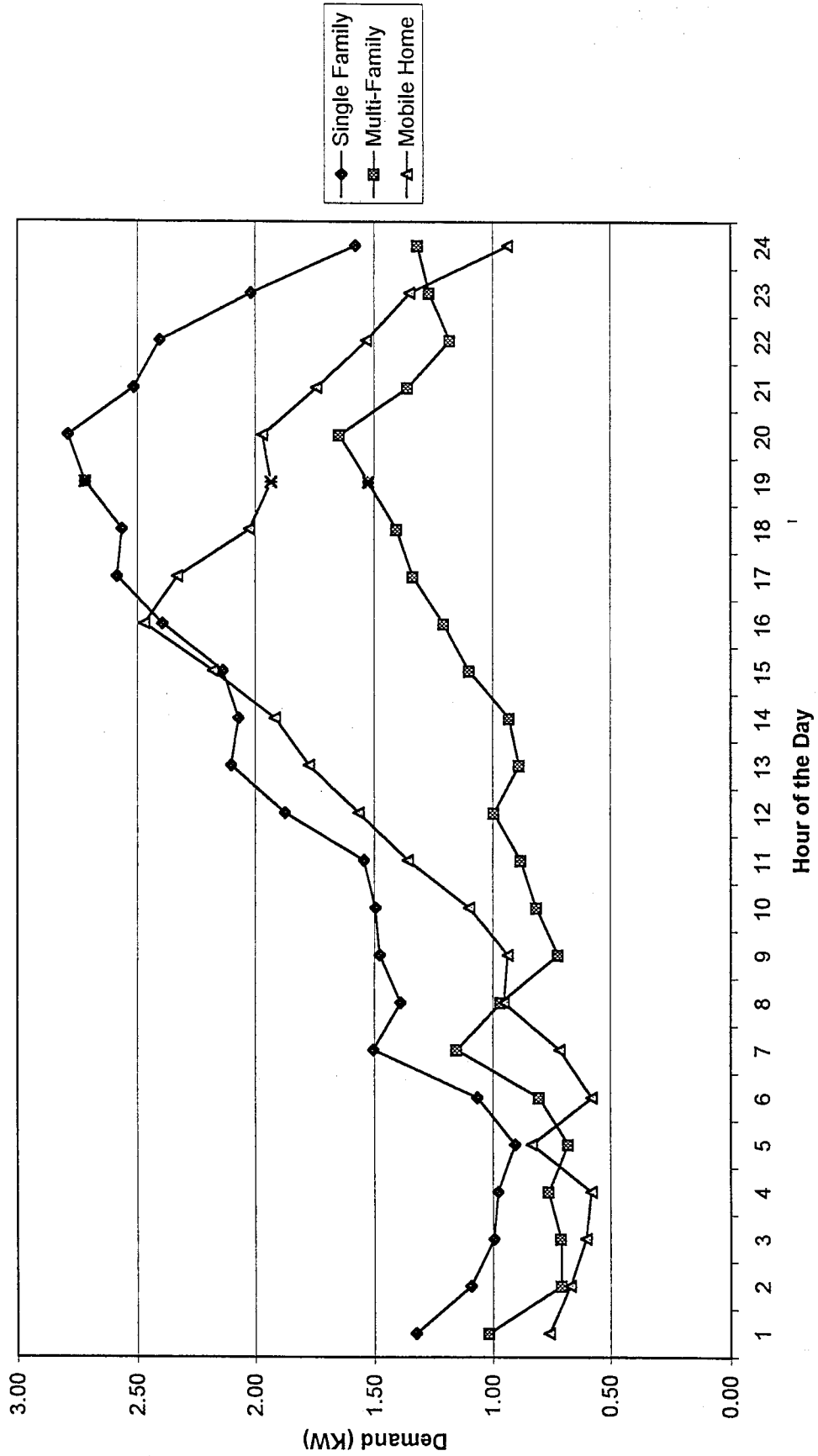
January
Coincident Peak Demand Per Customer
(Peak: 01/19/97 09:00)



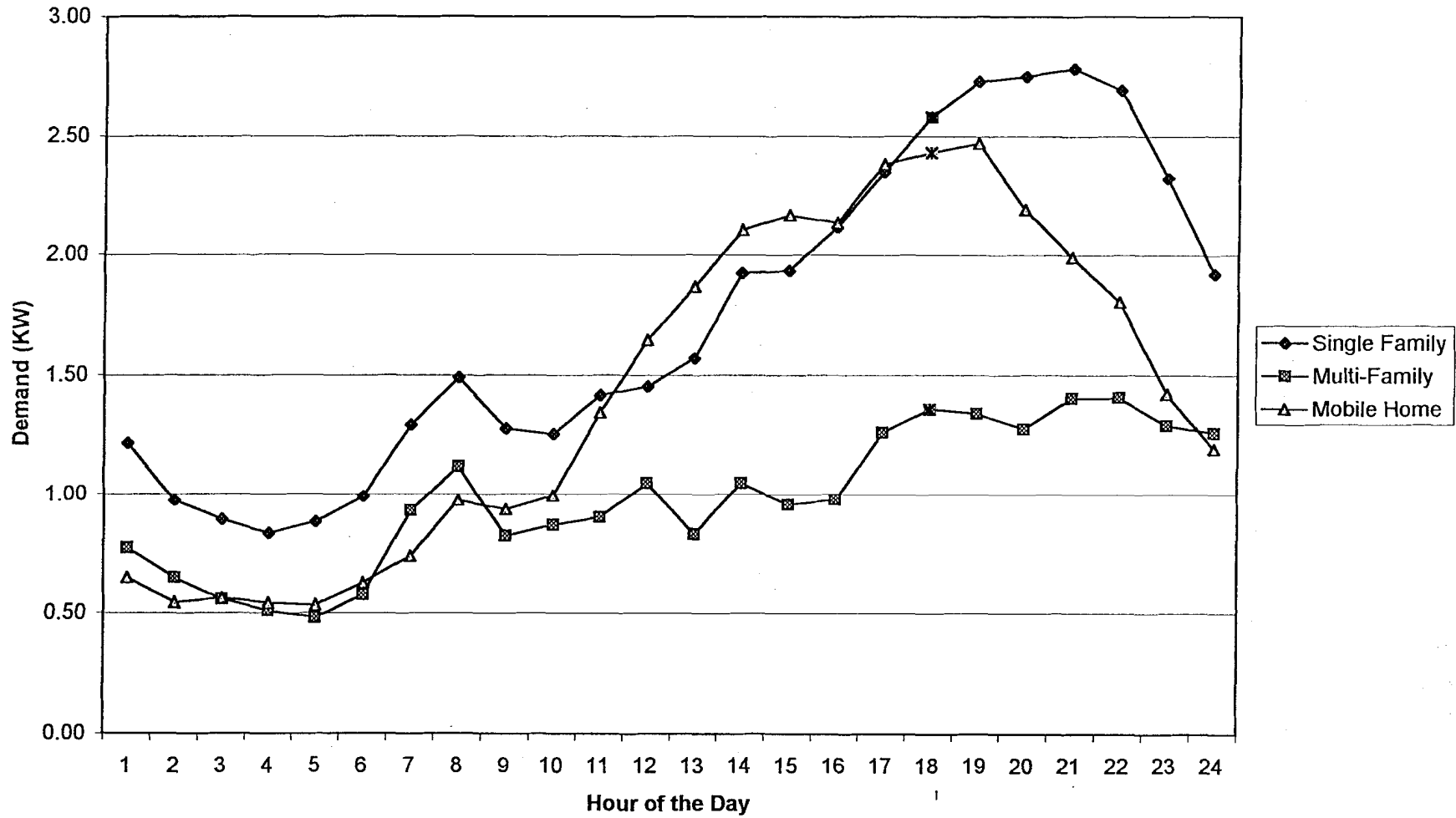
February
Coincident Peak Demand Per Customer
(Peak: 02/12/97 08:00)



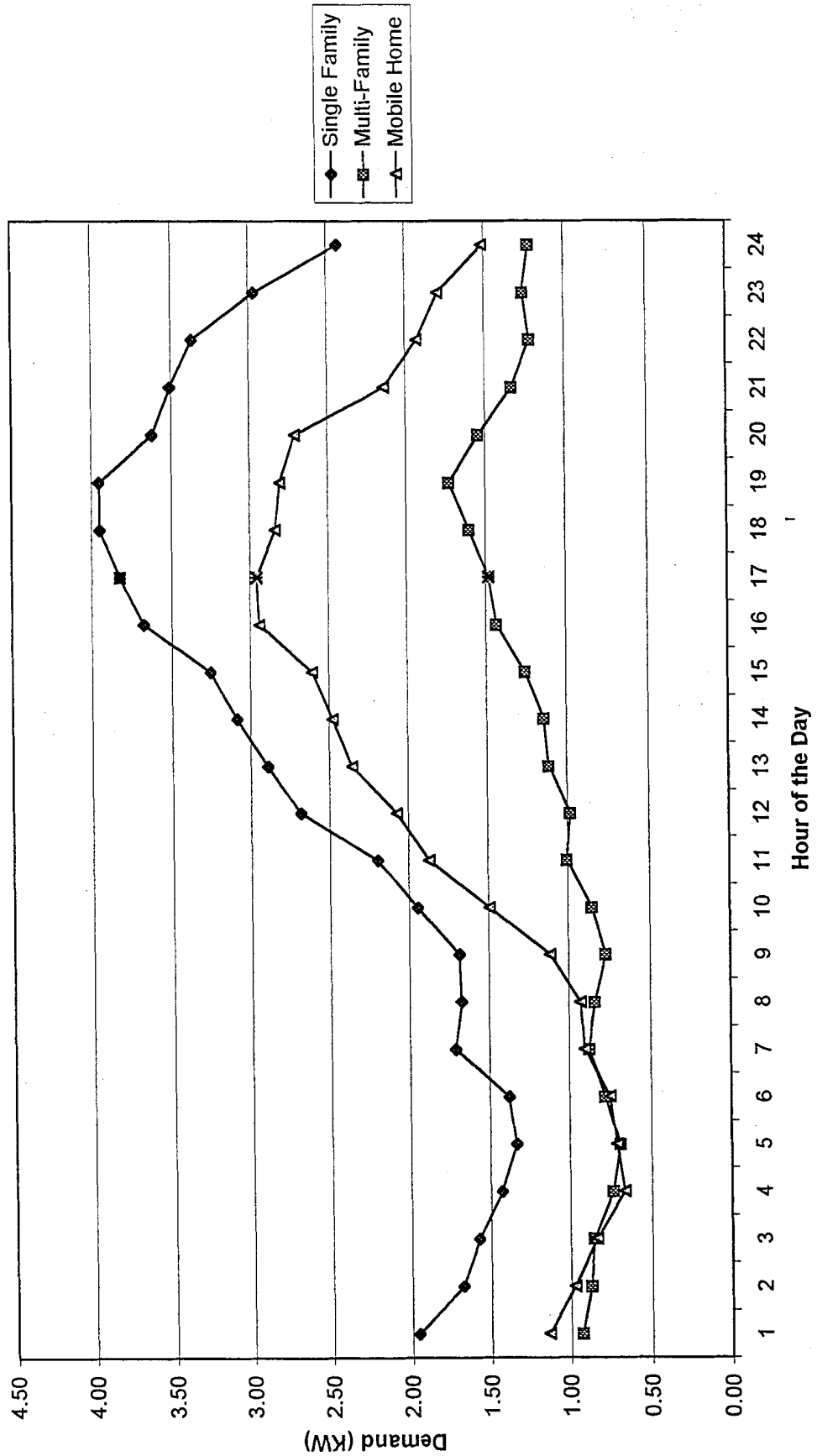
March
Coincident Peak Demand Per Customer
(Peak: 03/03/97 19:00)



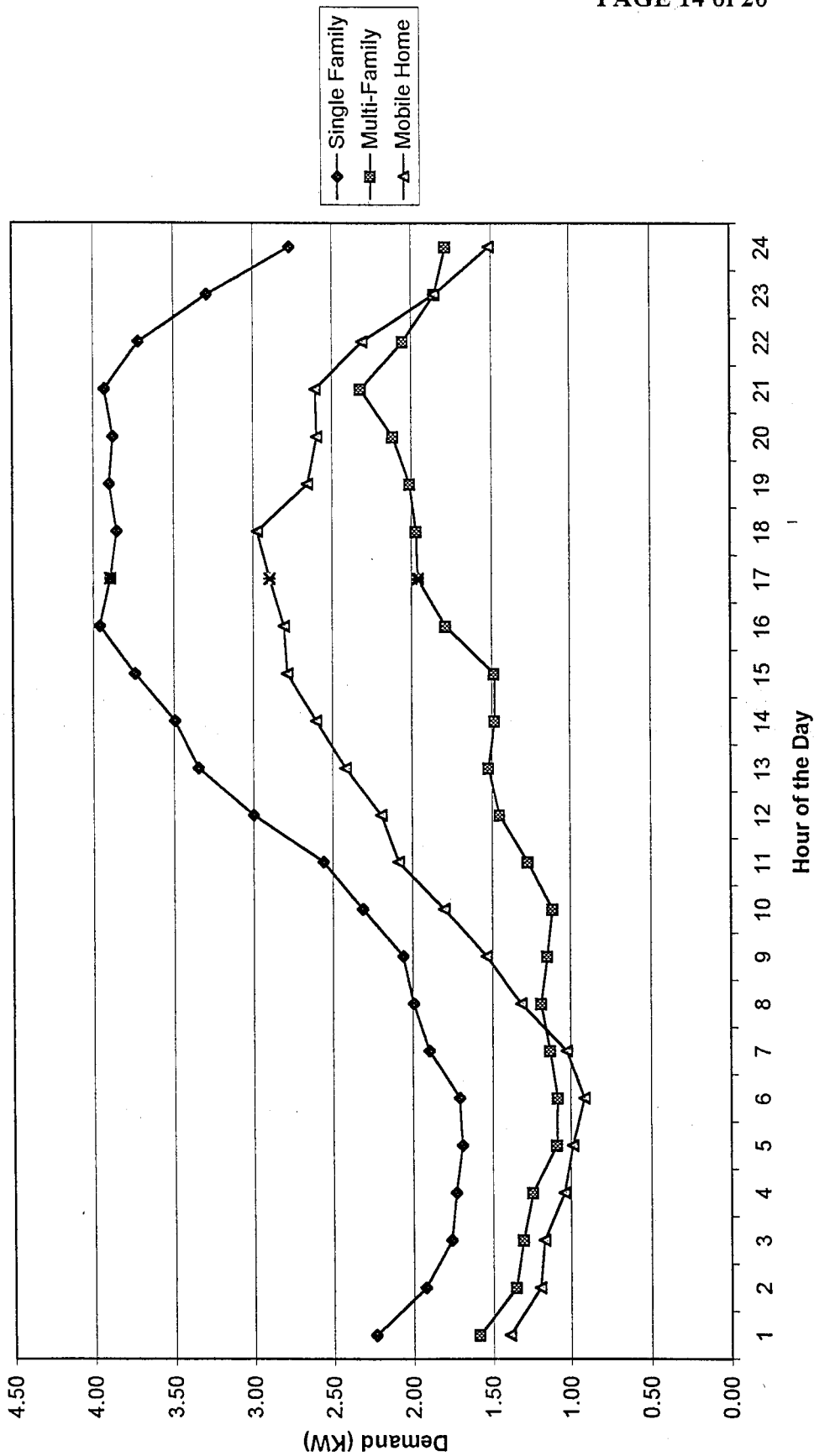
April
 Coincident Peak Demand Per Customer
 (Peak: 04/22/97 18:00)



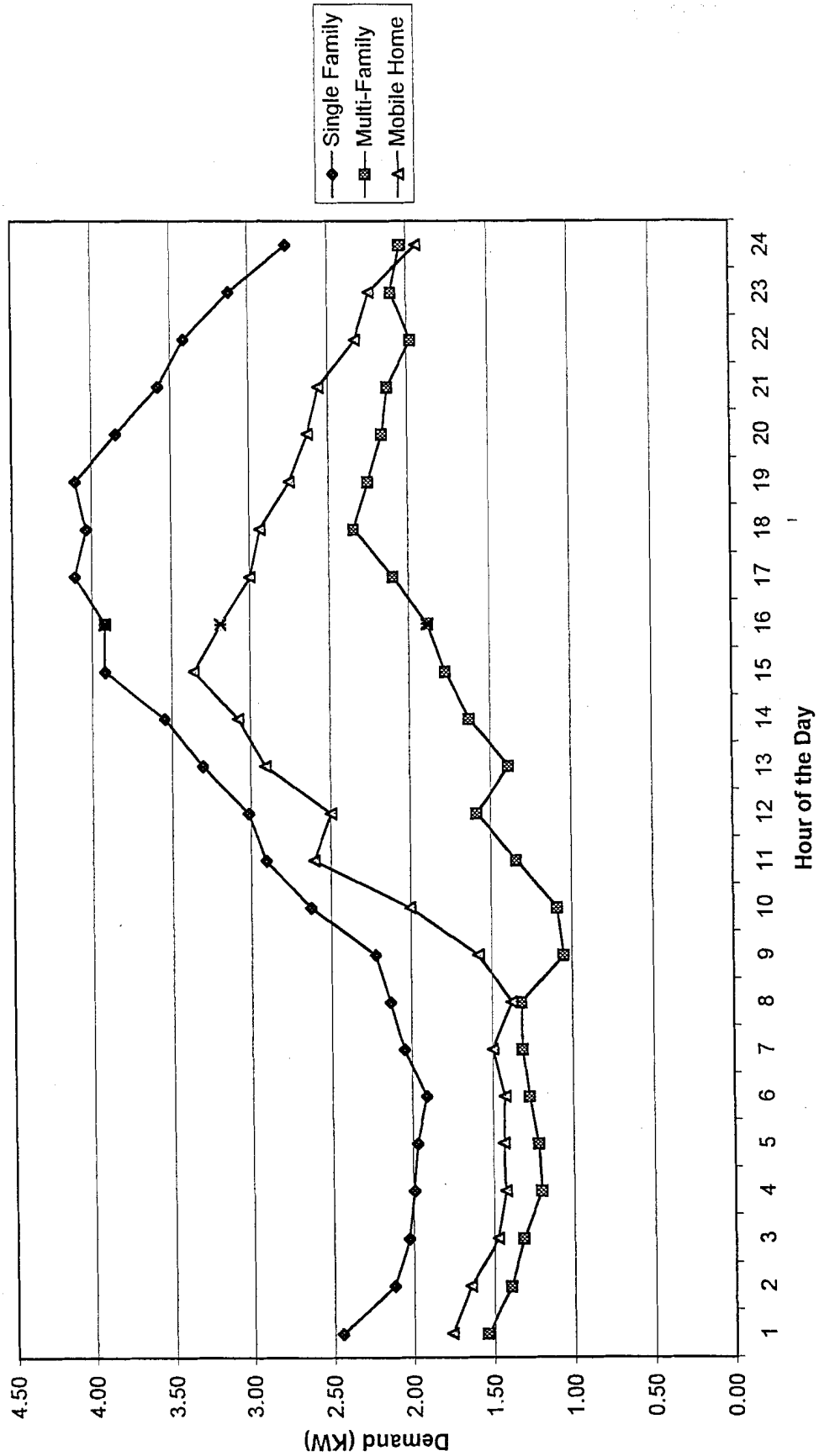
May
 Coincident Peak Demand Per Customer
 (Peak: 05/27/97 17:00)



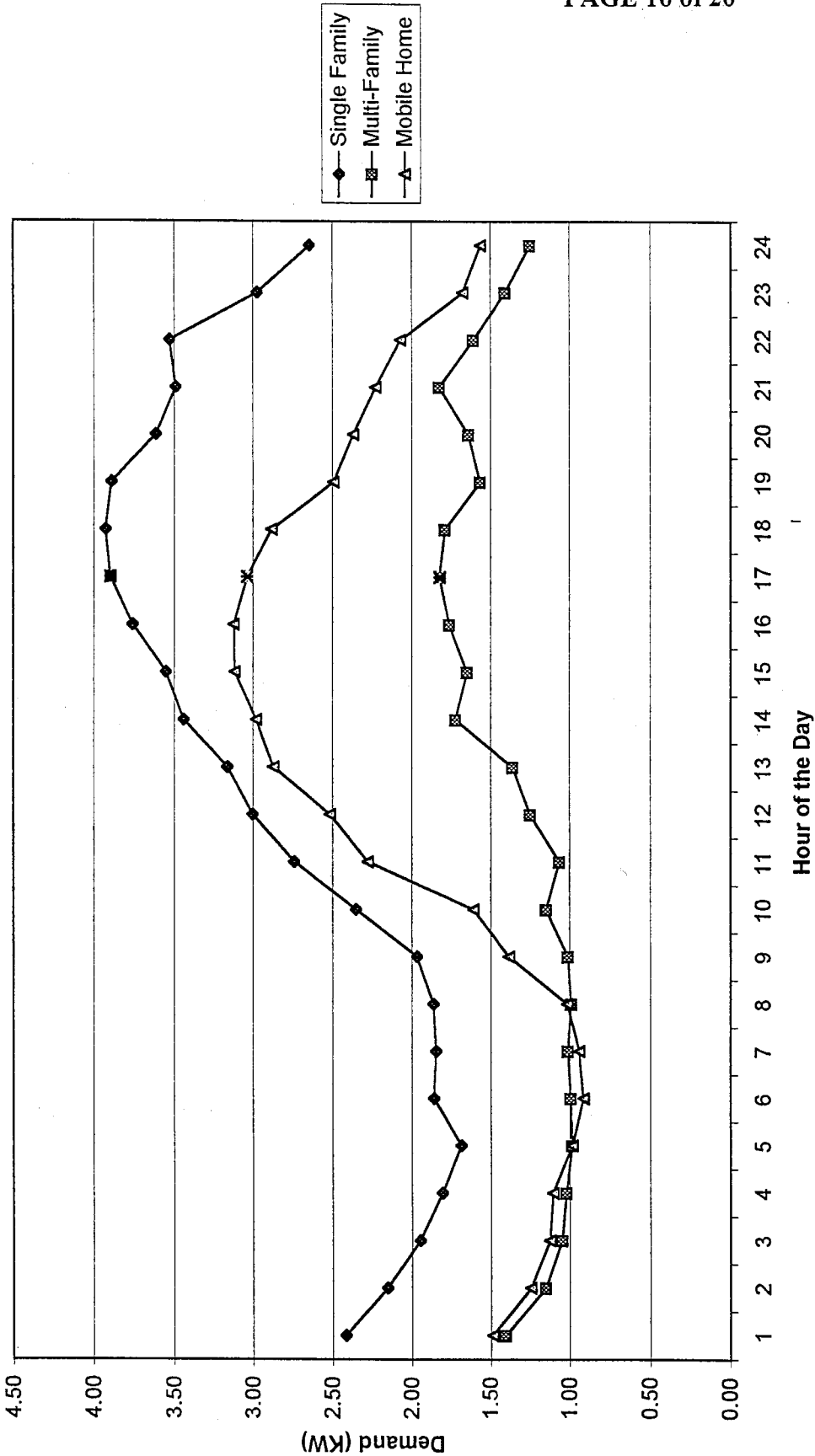
June
 Coincident Peak Demand Per Customer
 (Peak: 06/18/97 17:00)



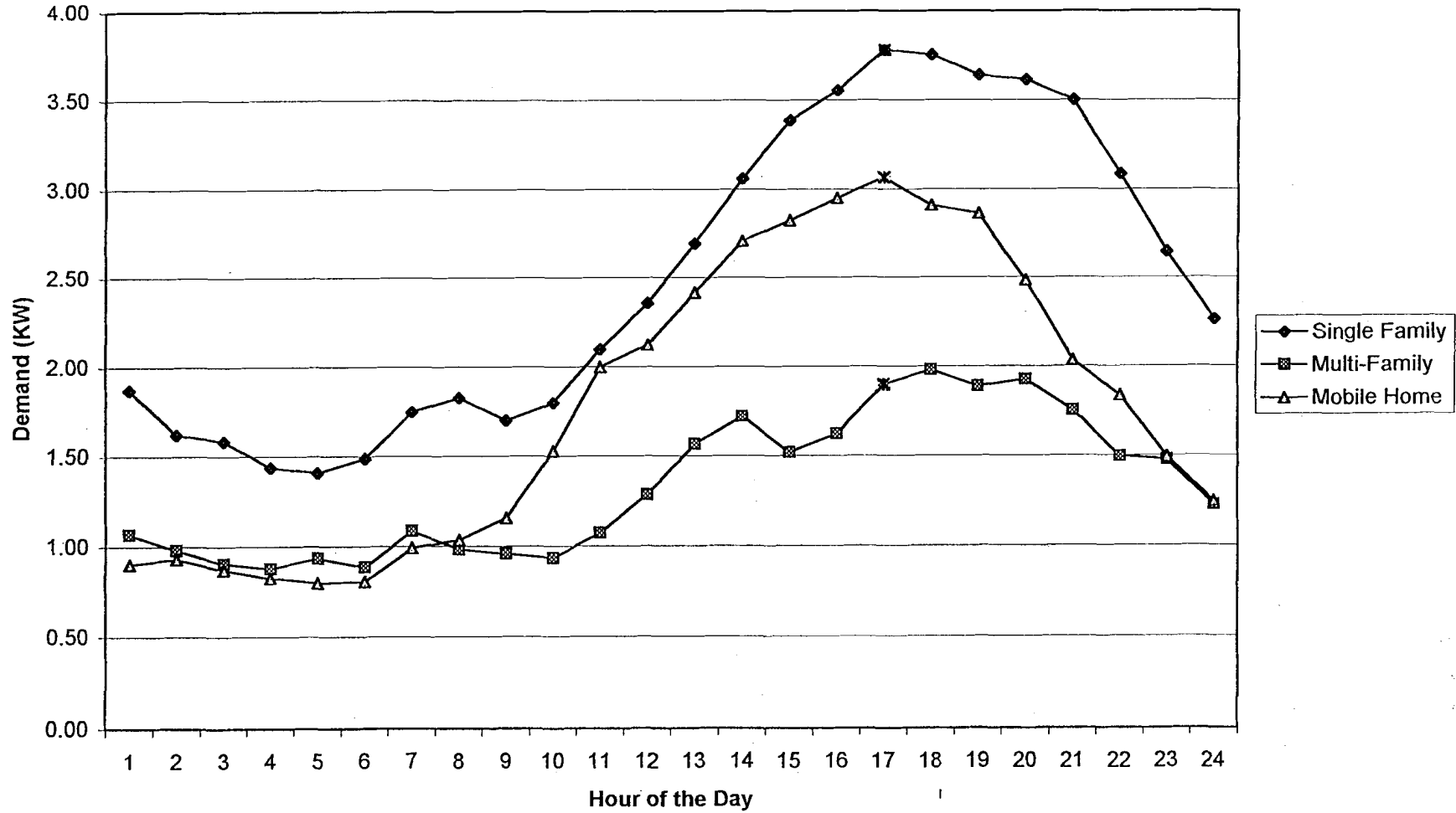
July
 Coincident Peak Demand Per Customer
 (Peak: 07/03/97 16:00)



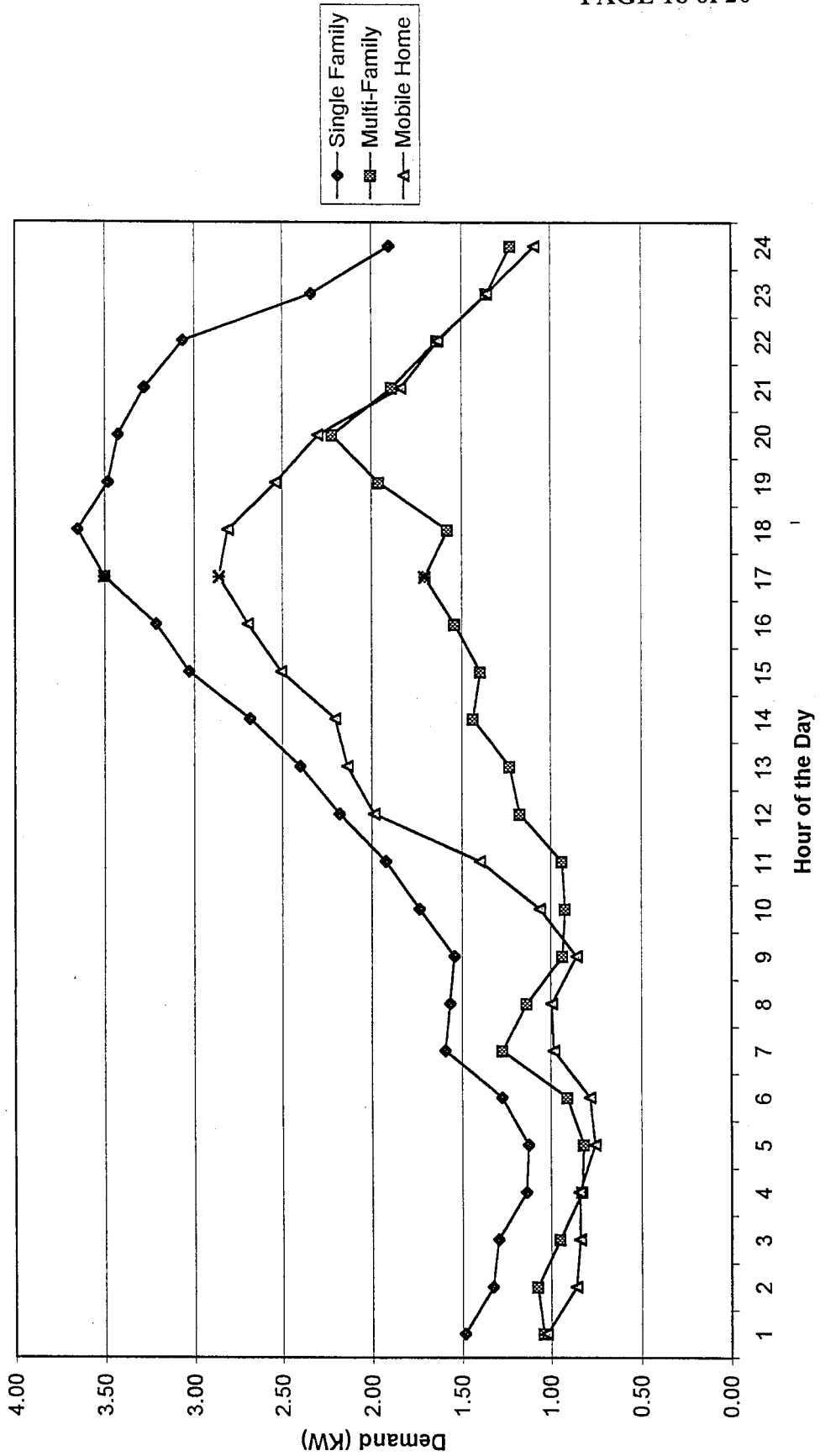
August
Coincident Peak Demand Per Customer
(Peak: 08/18/97 17:00)



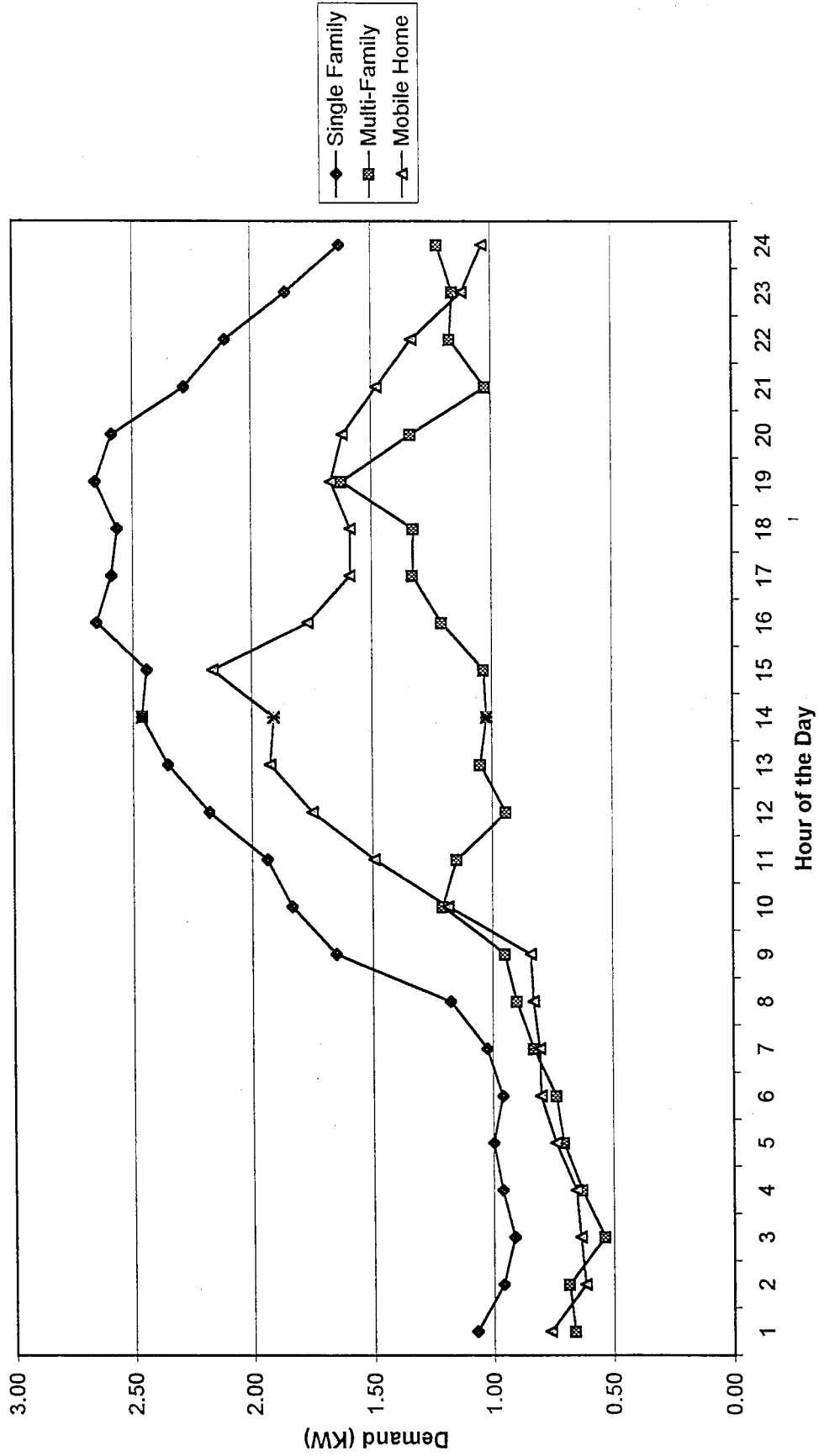
September
Coincident Peak Demand Per Customer
(Peak: 09/17/97 17:00)



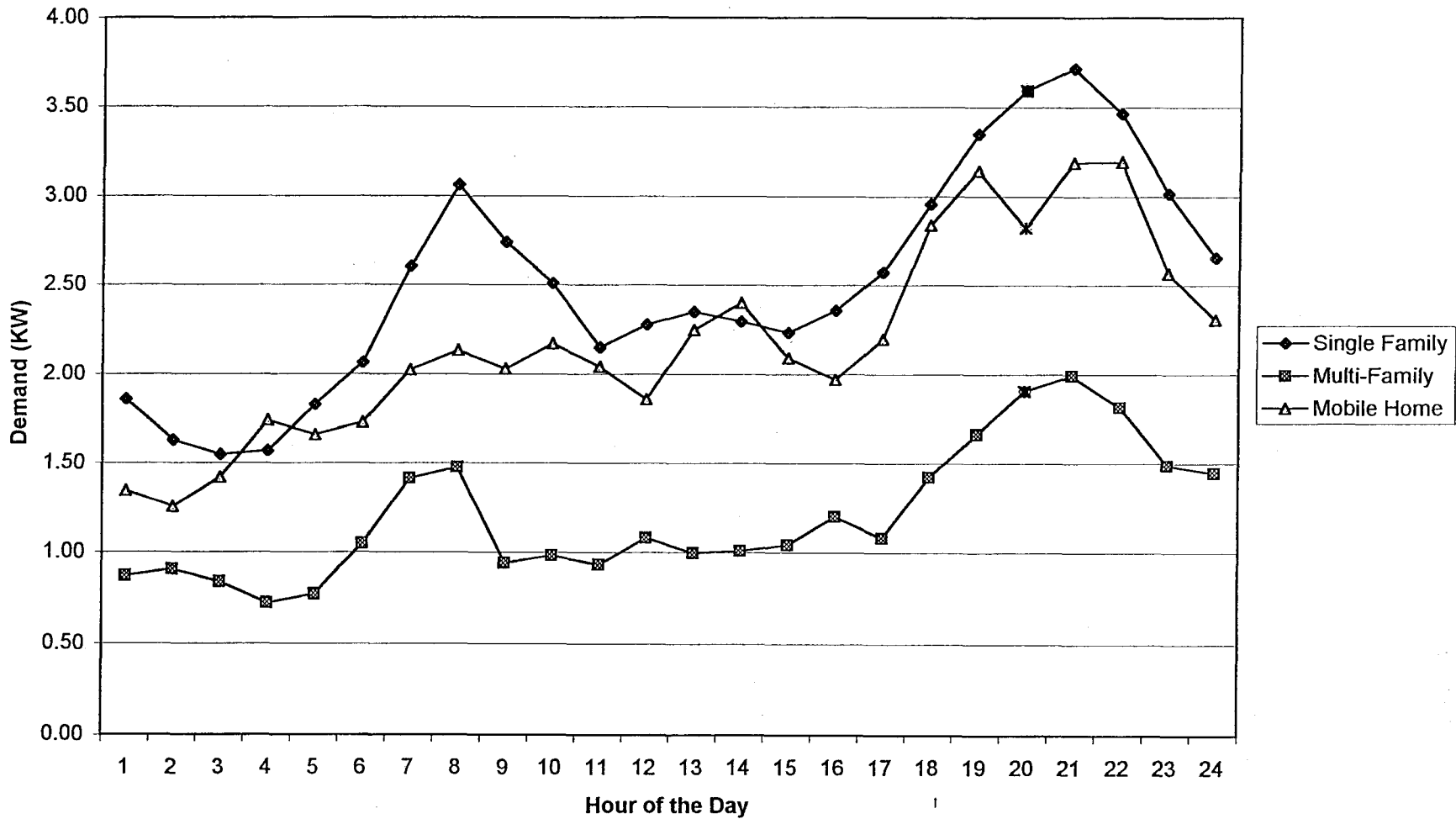
October
 Coincident Peak Demand Per Customer
 (Peak: 10/01/97 17:00)



November
Coincident Peak Demand Per Customer
(Peak: 11/01/97 14:00)



December
Coincident Peak Demand Per Customer
(Peak: 12/15/97 20:00)



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8. Provide any information or studies either done by you or that you are aware of which examine the conservation effects of the requirement for individual metering of occupancy units in lieu of master metering.
- A. Please see the attached study Conservation Impact of Individual Metering on an Apartment Complex in Tampa, Florida prepared by the TECO Energy corporate research group.

CONSERVATION IMPACT OF INDIVIDUAL METERING ON AN APARTMENT COMPLEX IN TAMPA, FLORIDA

Prepared by

Corporate Research

Carl L. Raish
Angelita M. Cox

July 6, 1999



EXECUTIVE SUMMARY

- ◆ The Apartment Complex, a seventy building complex in Tampa, Florida, converted from a single master metered account to individual metering in July 1995. Monthly electric consumption at the complex before and after the conversion was analyzed to determine the impact of this change.
- ◆ From January 1993 to July 1995 electric consumption at The Apartment Complex averaged 13,573,000 kWh annually. Subsequent to the conversion to individual metering, from August 1995 to April 1999, the complex averaged 9,977,000 kWh annually.
 1. Residential consumption averaged 10,064,000 kWh during the period before conversion and 6,468,000 kWh afterwards.
 2. Non-residential consumption, which primarily includes use for lighting, office, maintenance, swimming pools, and laundry facilities, averaged 3,509,000 kWh after the conversion (for analysis purposes this was also assumed as the consumption before conversion).
- ◆ The average consumption among all of Tampa Electric Company's multi-family dwellings built prior to 1981 increased by 3.7% on an annual basis for the same before and after time periods used in this analysis.
- ◆ In the fall of 1994, prior to installing individual metering, a significant energy conservation effort was undertaken at The Apartment Complex. The effort included duct repair and the addition of ceiling insulation. The impact of this conservation was to reduce electric consumption at the complex by an estimated 753,000 kWh.
- ◆ The estimated reduction in electric consumption at The Apartment Complex attributable to the conversion to individual metering was 3,488,000 kWh. On a per dwelling basis, annual consumption dropped from nearly 13,000 kWh to about 8,600 kWh per year – a reduction of about 34%.
- ◆ On a seasonal basis, the reductions were large across the board and averaged 39% for the winter season (January, February and December) and about 33% for the rest of the year.
- ◆ Finally, examining the reductions in consumption on a year-by-year basis reveals that they did not merely persist, but increased in magnitude from about 32% during the first twelve months following installation of individual metering up to a 36% reduction during the third year.

OVERVIEW

This report and the underlying analysis effort was undertaken in response to the June 9, 1999 data request (item 8.) from the Florida Public Service Commission Staff. The data request was issued under Docket No. 990188-EI, Generic Investigation into the Requirement for Individual Electric Metering by Investor-owned Electric Utilities Pursuant to Rule 25-6.049(5)(a), F.A.C. The objective of the research undertaken was to estimate the magnitude of the conservation effects associated with the conversion from master metering to individual metering at an apartment complex in Tampa Electric Company's service area.

The initial challenge for the research was to identify an apartment complex in the service area, which had converted to individual metering and met qualifying criteria. The criteria were 1) a significant amount of before and after consumption history, 2) a relatively stable occupancy pattern across the analysis period, and 3) an absence of significant renovation or any other changes affecting electric consumption. The only candidate identified, which met these criteria was used.

This apartment complex, which was built in the 1970s, was converted to individual metering in July 1995. The complex is comprised of 70 separate buildings 67 of which contain 595 apartment and 204 townhouse units. The apartments have one or two bedrooms and range in floor area from 386 to 1,300 square feet. The townhouses are all two-story, two-bedroom units ranging in size from 800 to 1,250 square feet.

The complex has two buildings and a number of other electric loads, which are non-residential in nature. As currently wired, 86 individual meters are installed to measure and bill this non-residential electric consumption, which includes a car wash, a club house/fitness center, an office, a maintenance building, three laundry facilities, two swimming pool pumps and the remaining 75 for building and common area lighting. Until July 1995, the entire electric load to the complex was served through one account and meter and billed on the General Service Large Demand Rate.

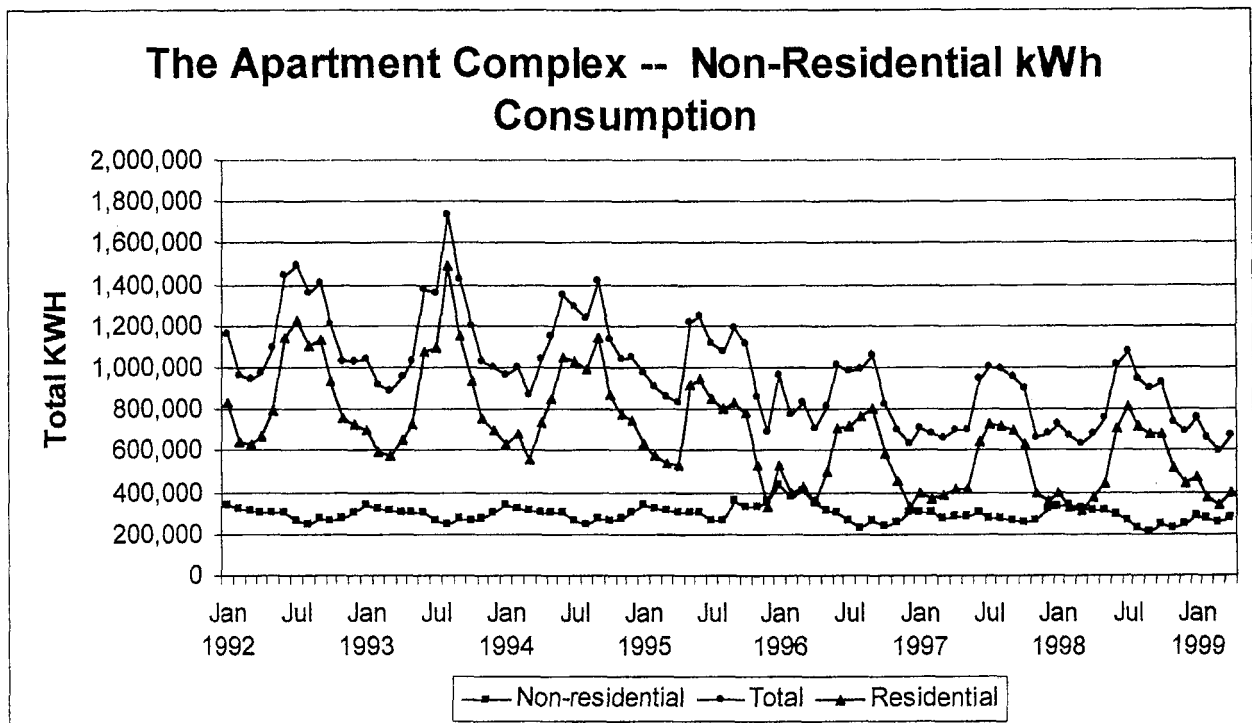
Finally, in 1994, prior to re-wiring The Apartment Complex for individual metering, under the auspices of Tampa Electric Company's energy conservation programs, duct repair and the addition of ceiling insulation took place. This activity was initiated primarily to ease the transition for tenants to having their own electric service and paying directly for their own electric bills.

Because of the building configurations and conservation program restrictions, only the two-story townhouse units and the second floor apartments were involved in this conservation effort, while the non-residential and downstairs units were excluded. Documentation for the work no longer exists, but employees involved in the work recall it being performed in the fall of 1994. A recent inspection of the attics indicates that the ceiling insulation level was increased from R-15 to R-26.

METHODOLOGY and FINDINGS

As previously indicated, The Apartment Complex was converted from master metering to individual metering during July 1995. To quantify the impact of the change on kilowatt-hour consumption at the complex, monthly consumption from the single master metered account between January 1992 through July 1995 was compared to consumption from August 1995 through April 1999. Consumption for the latter time period was determined by summing across all the individual accounts at the complex on a month by month basis. Since the accounts for the living units revert to The Apartment Complex owner's name during periods of vacancy, the usage history is complete, and the summation can be compared with validity to usage while the complex was master metered.

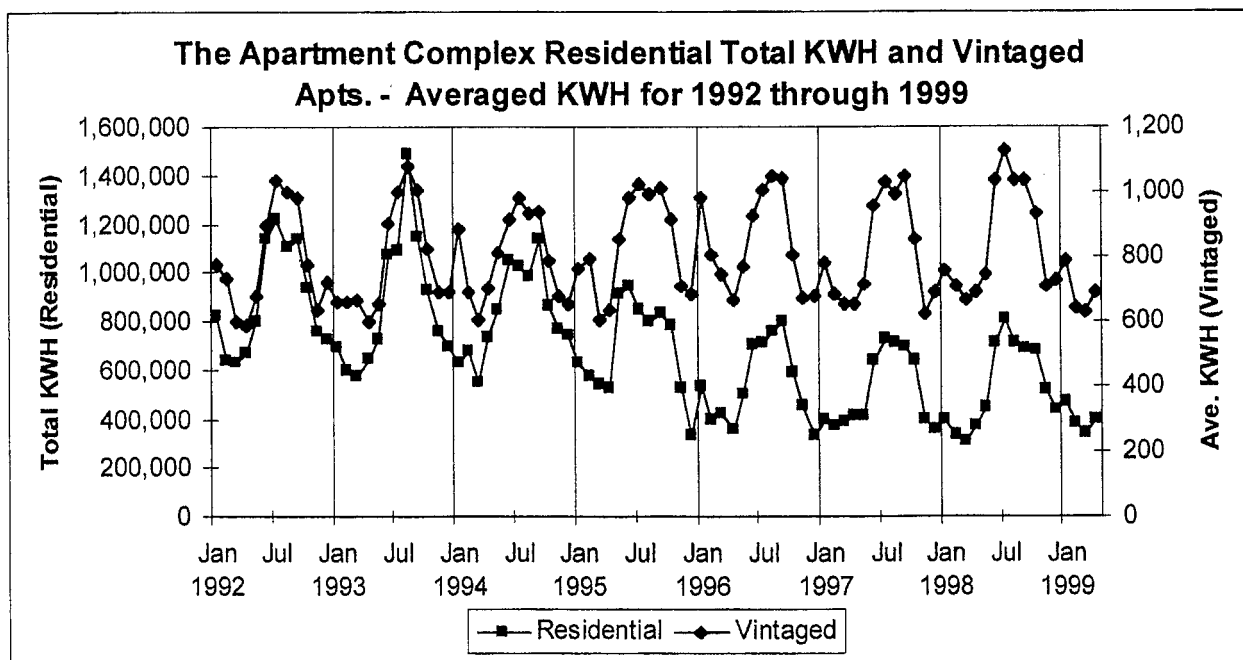
As shown in the graph below, a substantial amount of non-residential load is present at The Apartment Complex. The August 1995 – April 1999 values are taken from actual meter readings, prior to August 1995 they are estimated. For purposes of quantifying the changes, we assumed that the level of non-residential consumption would be unaffected by the installation of individual metering. This assumption is reasonable since the complex owner was actually paying the bill in both situations and since the consumption is primarily attributable to lighting, swimming pools, laundry and maintenance for which the consumption would not be expected to change.



Given the assumption that any changes in consumption for the complex associated with individual metering were attributable to residential consumption, the next step in the analysis consisted of developing estimates of the monthly residential consumption during the before (master metered) time period. To accomplish this, average monthly consumption for the non-residential load was computed across the August 1995 to April 1999 time period; that is totals were calculated for the non-residential accounts for January 1996, 1997, 1998 and 1999. These four values were then averaged together to produce an average January total non-residential consumption amount (and similarly for the other months). These average monthly amounts were then subtracted from the corresponding months for the master meter to produce an estimate of the total residential consumption during the before period individual metering.

The graph below shows the complex residential consumption across the entire period of the analysis (January 1992 to April 1999). For comparative purposes, average monthly consumption for all multi-family dwellings constructed prior to 1981 is also plotted and referenced as vintaged consumption. This data has been and continues to be collected from the company's billing records; and until recently this type data had been filed annually with the Florida Public Service Commission under then Rule 25-17.006. The vintaged consumption shown on the graph reflects kilowatt-hour usage averaged across older multi-family units over time and thus is not affected by changing construction practices associated with newer apartments.

Although the two plots are shown using different scales (the vintaged amounts are averages per customer), the comparison is relevant since the quantities are related by an essentially constant factor – the number of accounts at The Apartment Complex. The two plots quite clearly parallel each other during the early years and then diverge during the later years following the installation of individual metering.

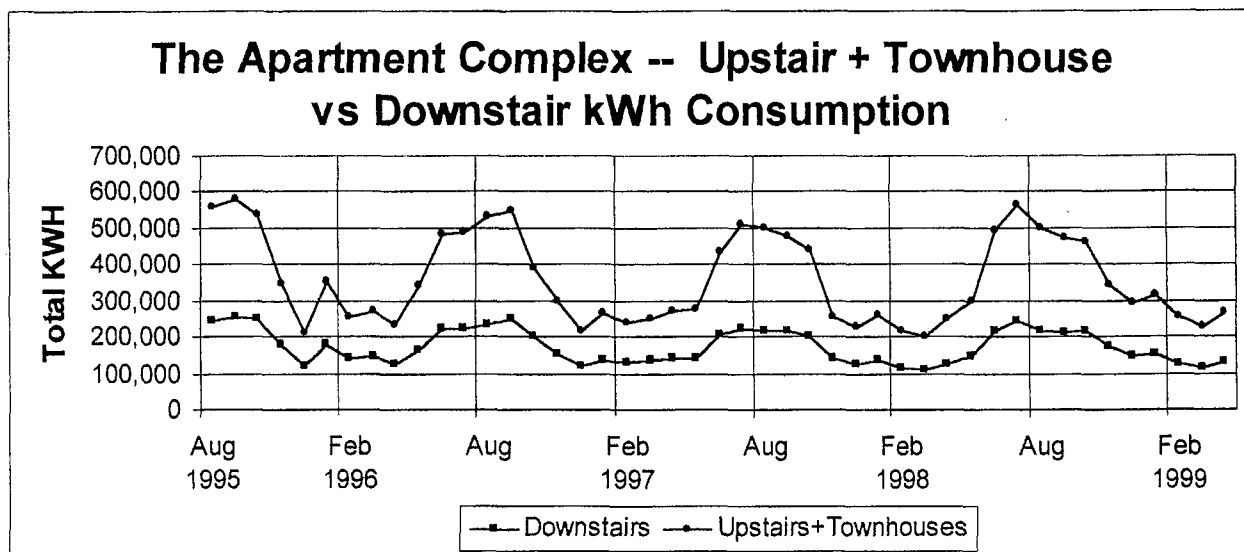


As noted previously, a substantial conservation effort (duct repair and the addition of ceiling insulation) occurred at The Apartment Complex during the year prior to installing individual metering. Some of the changes in consumption shown in the preceding graph can be attributed to this effort. To quantify the impact of the duct repair work, reference was made to Tampa Electric Company's most recent conservation program cost effectiveness filing. In this filing, duct repair was estimated to reduce consumption by about 1,000 kWh annually per participant. Since this reduction estimate applies to single family detached houses, applying that amount here more than likely overstates the amount and thus tends to understate the reduction attributed to the conversion to individual metering.

An annual heat-loss/heat-gain model was run to compute the reduction in kWh consumption resulting from the added ceiling insulation. To make the calculation manageable, a second floor apartment having 1,000 square feet and having the insulation level increased from R-15 to R-26 was assumed. The model estimated a reduction of 449 kWh per year. To err on the side of understating the individual metering effect, the analysis proceeded by assuming a 500 kWh per year reduction attributed to ceiling insulation.

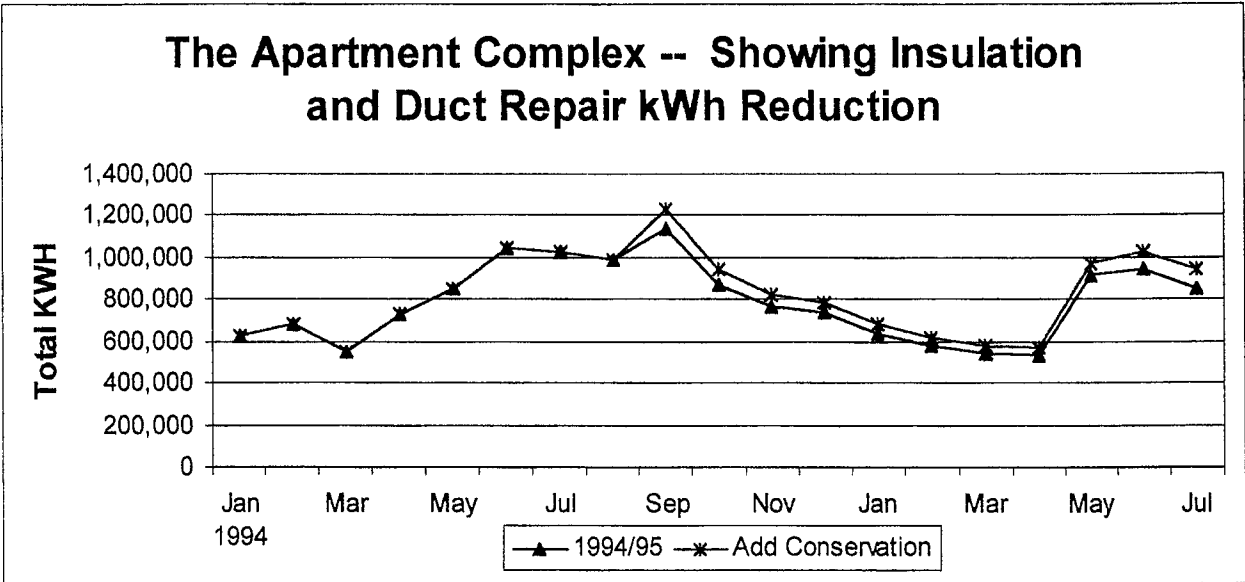
The conservation reductions also are overstated somewhat as a result of vacancies at the complex. The periods of vacancy would be expected to have low energy use and consequently lowered savings from conservation actions. In fact, the turnover rate averaged fifteen months for The Apartment Complex from July 1995 to April 1999.

As stated in the overview, the duct repair and ceiling insulation addition only occurred in the upstairs and townhouse units. An inventory was taken of the units at the complex so they could be classified by type: upstairs, downstairs and townhouse. The graph below shows the total consumption by the unit types and shows that the consumption in upstairs and townhouse units comprises the majority of the residential load at the complex.

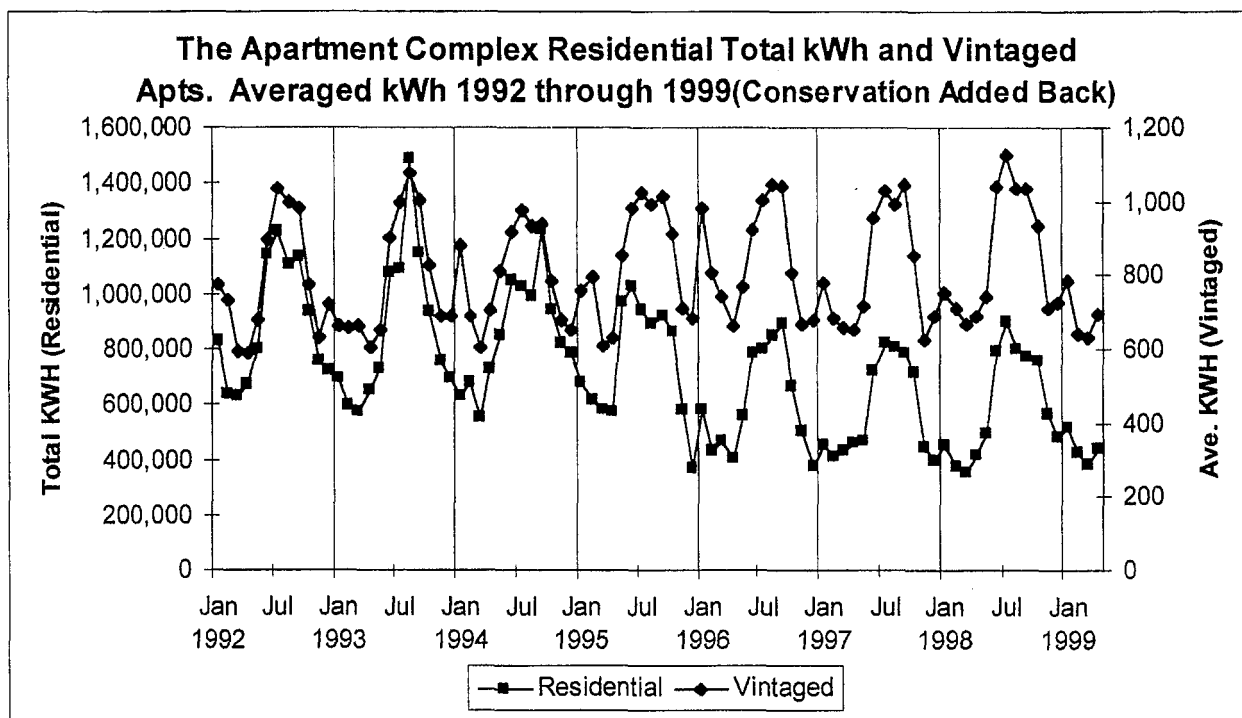


Over the August 1995 to April 1999 time period the downstairs units used 2,094,081 kWh in aggregate on an annual basis. This represents about 32% of the residential consumption at the complex was not impacted by the duct repair or addition of ceiling insulation. The townhouse and upstairs units, which were impacted by the conservation, used 4,374,084 kWh annually. There are a total of 298 upstairs units and 204 townhouse units, so the total impact on an annual basis of the duct repair and addition of ceiling insulation was estimated to be 753,000 kWh (1,500 kWh per unit × 502 units).

Since the effect of this reduction in consumption began in 1994 and continued through the end of the analysis period in April 1999, adjustments to the actual consumption were necessary to isolate the impact of individual metering on consumption. The adjusted consumption was computed by adding the conservation reduction to the actual consumption, month-by-month starting in September 1994. The net effect of this was to produce consumption amounts for the months both before and after the installation of individual metering as if the conservation had not occurred. The 753,000 kWh of annual conservation was distributed among the months in proportion to the monthly consumption of the townhouse and upstairs apartments (the units affected by the duct repair and ceiling insulation addition). The graph below illustrates the effect of this adjustment for the months preceding the installation of individual metering.



The graph below compares the monthly consumption for the analysis time period for the adjusted Apartment Complex residential load with the pre-1981 vintaged consumption. The adjusted consumption removes the conservation reduction associated with duct repair and ceiling insulation addition. Because of this adjustment, the reduction occurring subsequent to July 1995 evident in the graph was then attributed to the installation of individual metering. From this point the analysis shifted to quantifying the amount of this reduction.



The monthly consumption for amounts for The Apartment Complex were averaged together to determine average consumption month-by-month for both the time periods before and after the installation of individual metering. The before period was defined to be January 1993 to July 1995, and the after period was defined to be August 1995 to April 1999. The same month-by-month averages were also computed for pre-1981 multi-family consumption. Ratios of consumption after individual metering to consumption before individual metering were then computed and used to measure the relative changes. The table on the following page shows the results of these calculations.

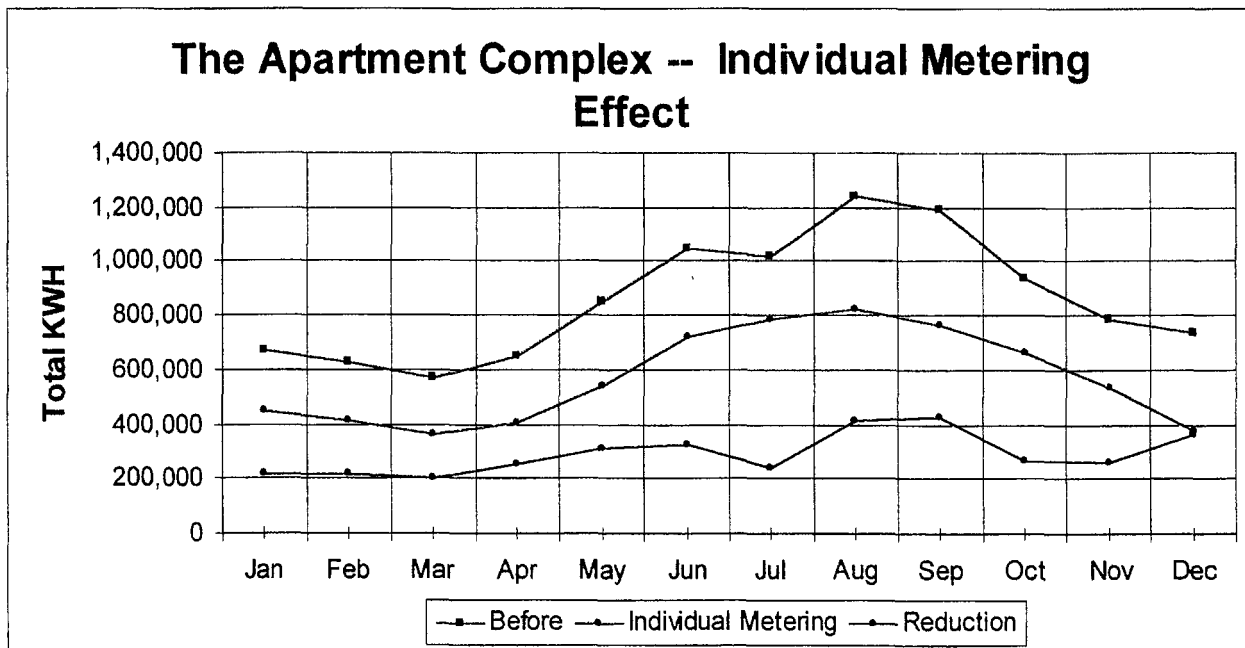
**AVERAGE MONTHLY CONSUMPTION
THE APARTMENT COMPLEX vs AVERAGE PRE-1981 MULTI-FAMILY
HOMES BEFORE AND AFTER INDIVIDUAL METERING**

Month	Apartment Complex Before	Apartment Complex After	Ratio (after/before)	Pre-1981 Before	Pre-1981 After	Ratio (after/before)
Jan	668,296	500,924	0.7496	769	827	1.0756
Feb	630,561	410,409	0.6509	715	713	0.9964
Mar	568,131	406,547	0.7156	627	675	1.0770
Apr	651,494	429,986	0.6600	647	675	1.0424
May	848,463	506,569	0.5970	774	744	0.9612
Jun	1,049,250	766,315	0.7303	935	974	1.0421
Jul	1,019,577	839,606	0.8235	1,000	1,055	1.0550
Aug	1,238,885	838,266	0.6766	1,006	1,017	1.0112
Sep	1,189,402	842,426	0.7083	973	1,013	1.0642
Oct	937,328	750,157	0.8003	807	878	1.0883
Nov	789,485	524,342	0.6642	687	680	0.9898
Dec	738,297	405,618	0.5494	671	696	1.0380
Total	10,329,170	7,221,165	0.6991	9,609	9,968	1.0374

The above table indicates that The Apartment Complex residents lowered their consumption subsequent to individual metering by about 30% from the amount used beforehand. By contrast, the pre-1981 multi-family homes increase their consumption by about 3.7%. The reduction in consumption due to the installation of individual metering is a combination of these two changes (instead of increasing by 3.7% the consumption decreased by 30%). Based on the combination of these two changes, the month-by-month reduction in consumption is shown in the table and graph on the following page.

**THE APARTMENT COMPLEX
REDUCTION IN kWh CAUSED BY INDIVIDUAL METERING
AVERAGED OVER THREE YEARS**

Month	kWh Before	kWh Before Per Unit	kWh Reduction	Reduction Per Unit	Per Cent Reduction
Jan	668,296	836	217,871	273	32.6%
Feb	630,561	789	217,875	273	34.6%
Mar	568,131	711	205,303	257	36.1%
Apr	651,494	815	249,101	312	38.2%
May	848,463	1,062	308,993	387	36.4%
Jun	1,049,250	1,313	327,091	409	31.2%
Jul	1,019,577	1,276	236,048	295	23.2%
Aug	1,238,885	1,551	414,474	519	33.5%
Sep	1,189,402	1,489	423,377	530	35.6%
Oct	937,328	1,173	269,979	338	28.8%
Nov	789,485	988	257,093	322	32.6%
Dec	738,297	924	360,757	452	48.9%
Total	10,329,170	12,928	3,487,963	4,365	33.8%
Average	860,764	1,077	290,664	364	34.3%



As can be seen in the previous table, the consumption at The Apartment Complex was reduced by about 34% as a result of individual metering. On a per living unit basis, consumption was reduced from 1,077 kWh per month to about 700 kWh per month. Month by month the estimated reductions ranged from 273 kWh to 530 kWh; on a percentage basis the reductions ranged from 23% to nearly 50%. Seasonal effects are shown in the table below.

**THE APARTMENT COMPLEX - - SEASONAL
REDUCTION IN kWh CAUSED BY INDIVIDUAL METERING
AVERAGED OVER THREE YEARS**

Season	kWh Before	kWh Before Per Unit	kWh Reduction	Reduction Per Unit	Per Cent Reduction
Winter					
Total	2,037,154	2,550	796,503	997	39.1%
Average	679,051	850	265,501	332	39.1%
Shoulder					
Total	2,946,439	3,688	981,477	1,228	33.3%
Average	736,610	922	245,369	307	33.3%
Summer					
Total	5,345,577	6,690	1,709,983	2,140	32.0%
Average	1,069,115	1,338	341,997	428	32.0%

Winter consumption, which occurred during January, February and December, was obviously affected the most with a 39% reduction, while the shoulder season (March, April, October and November) saw a 33% reduction, and the summer saw a 32% reduction.

The table on the following page shows the year-by-year and seasonal reductions attributable to individual metering. These reductions were computed against the corresponding consumption averaged across all the before years.

**THE APARTMENT COMPLEX
REDUCTION IN kWh CAUSED BY INDIVIDUAL METERING
BY YEAR**

	kWh Before	kWh Before Per Unit	kWh Reduction	Reduction Per Unit	Per Cent Reduction
1st Year	10,252,734	12,832	3,255,688	4,075	31.8%
2nd Year			3,350,475	4,193	32.7%
3rd Year			3,701,769	4,633	36.1%
1st Winter	2,037,154	2,550	953,155	1,193	46.8%
2nd Winter			791,688	991	38.9%
3rd Winter			822,449	1,029	40.4%
4th Winter			619,874	776	30.4%
1st Shoulder	2,946,439	3,688	921,693	1,154	31.3%
2nd Shoulder			909,732	1,139	30.9%
3rd Shoulder			1,090,912	1,365	37.0%
4th Shoulder			1,015,176	1,271	34.5%
1st Summer	5,345,577	6,690	1,577,091	1,974	29.5%
2nd Summer			1,820,787	2,279	34.1%
3rd Summer			1,920,701	2,404	35.9%

On an annual basis the reduction does not merely persist, but increases in magnitude from about 32% for the first twelve months after individual metering to 36% in the third year. This reduction is attributable to reductions occurring in the summer and shoulder months. Since the winters are based on more volatile weather and consist of only three months, winter reductions are more volatile.

Finally, the table on the next page shows a comparison of consumption within The Apartment Complex by the three types of dwelling units - - upstairs, downstairs and townhouse. This comparison covers only actual (not adjusted for duct repair or ceiling insulation addition) consumption during the time period with individual metering.

**THE APARTMENT COMPLEX
kWh CONSUMPTION BY TYPE OF HOUSING UNIT**

	kWh Downstairs	kWh Per Unit	kWh Upstairs	kWh Per Unit	kWh Townhouse	kWh Per Unit
Winter						
Total	407,325	1,371	401,709	1,348	374,323	1,835
Average	135,775	457	133,903	449	124,774	612
Shoulder						
Total	633,920	2,134	650,955	2,184	609,219	2,986
Average	158,480	534	162,739	546	152,305	747
Summer						
Total	1,052,837	3,545	1,219,851	4,093	1,118,026	5,481
Average	210,567	709	243,970	819	223,605	1,096
Annual						
Total	2,094,081	7,051	2,272,515	7,626	2,101,569	10,302
Average	174,507	588	189,376	635	175,131	858

The townhouse units consume the most electricity, using just over 10,000 kWh per year, while downstairs apartments use the least at just over 7,000 kWh per year. Upstairs units use about 600 kWh per year more than downstairs units, which is primarily driven by the significantly higher summer season consumption (4,093 kWh versus 3,545 kWh). Consumption during the winter and shoulder seasons is virtually the same for upstairs and downstairs apartments.

APPENDIX

BEFORE INDIVIDUAL METERING					
The Apartment Complex					Pre-1981 Apts
		Comm	Res	Total	Avg. KWH
1992	Jan	338,148	826,652	1,164,800	776
	Feb	324,078	639,123	963,200	731
	Mar	315,396	628,205	943,600	597
	Apr	301,500	670,101	971,600	590
	May	300,911	796,689	1,097,600	679
	Jun	299,883	1,142,117	1,442,000	897
	Jul	267,331	1,222,269	1,489,600	1,037
	Aug	248,115	1,107,085	1,355,200	1,000
	Sep	272,150	1,136,250	1,408,400	982
	Oct	266,721	937,279	1,204,000	774
	Nov	269,047	758,553	1,027,600	634
	Dec	305,477	724,924	1,030,400	720
1993	Jan	338,148	695,052	1,033,200	663
	Feb	324,078	594,323	918,400	660
	Mar	315,396	572,205	887,600	665
	Apr	301,500	650,501	952,000	603
	May	300,911	726,689	1,027,600	654
	Jun	299,883	1,077,717	1,377,600	904
	Jul	267,331	1,090,534	1,357,865	997
	Aug	248,115	1,488,285	1,736,400	1,080
	Sep	272,150	1,150,250	1,422,400	1,004
	Oct	266,721	931,679	1,198,400	826
	Nov	269,047	755,753	1,024,800	692
	Dec	305,477	694,124	999,600	688
1994	Jan	338,148	627,852	966,000	882
	Feb	324,078	678,323	1,002,400	692
	Mar	315,396	552,605	868,000	607
	Apr	301,500	731,701	1,033,200	705
	May	300,911	849,889	1,150,800	810
	Jun	299,883	1,046,917	1,346,800	917
	Jul	267,331	1,029,069	1,296,400	979
	Aug	248,115	989,485	1,237,600	932
	Sep	272,150	1,139,050	1,411,200	942
	Oct	266,721	864,479	1,131,200	787
	Nov	269,047	769,753	1,038,800	681
	Dec	305,477	741,724	1,047,200	653
1995	Jan	338,148	630,652	968,800	761
	Feb	324,078	577,523	901,600	794
	Mar	315,396	538,629	854,024	609
	Apr	301,500	528,261	829,760	634
	May	300,911	916,371	1,217,282	857
	Jun	299,883	942,092	1,241,975	983
	Jul	267,331	849,412	1,116,743	1,024

AFTER INDIVIDUAL METERING					
		The Apartment Complex			Pre-1981 Apts
		Comm.	Res.	Total	Avg. KWH
1995	Aug	267,407	803,549	1,070,956	991
	Sep	354,880	833,507	1,188,387	1,015
	Oct	329,140	785,223	1,114,363	913
	Nov	332,061	524,083	856,144	711
	Dec	354,883	329,892	684,775	685
1996	Jan	433,240	531,489	964,729	982
	Feb	381,513	393,013	774,526	809
	Mar	406,179	423,115	829,294	746
	Apr	348,169	359,311	707,480	664
	May	312,180	503,746	815,926	771
	Jun	300,643	705,995	1,006,638	925
	Jul	265,750	713,038	978,788	1,006
	Aug	227,967	761,969	989,936	1,047
	Sep	261,556	799,497	1,061,053	1,042
	Oct	234,106	587,933	822,039	805
	Nov	252,201	448,998	701,199	671
	Dec	301,396	331,987	633,383	677
1997	Jan	305,749	399,720	705,469	781
	Feb	303,589	371,182	674,771	687
	Mar	276,787	387,512	664,299	656
	Apr	280,025	415,199	695,224	654
	May	280,968	414,700	695,668	717
	Jun	302,204	638,476	940,680	958
	Jul	272,196	729,525	1,001,721	1,032
	Aug	271,195	714,836	986,031	994
	Sep	260,044	695,113	955,157	1,048
	Oct	257,656	635,977	893,633	857
	Nov	267,532	394,756	662,288	624
	Dec	321,954	357,251	679,205	692
1998	Jan	326,019	398,436	724,455	756
	Feb	335,386	330,624	666,010	712
	Mar	323,906	310,042	633,948	669
	Apr	306,860	373,053	679,913	688
	May	309,586	443,941	753,527	743
	Jun	296,801	711,401	1,008,202	1,039
	Jul	264,047	807,110	1,071,157	1,127
	Aug	225,890	713,576	939,466	1,037
	Sep	212,119	683,569	895,688	1,037
	Oct	245,981	677,502	923,483	936
	Nov	224,395	515,671	740,066	712
	Dec	243,673	440,354	684,027	730
1999	Jan	287,584	468,725	756,309	788
	Feb	275,822	380,753	656,575	643
	Mar	254,710	341,700	596,410	630
	Apr	270,944	396,299	667,243	693

The Energy Place
Pensacola, Florida 32520

930.444.8111



July 13, 1999

Ms. Grace A. Jaye
Staff Counsel
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0863

RECEIVED-PPSC
93 JUL 14 PM 4:44
RECORDS AND
REPORTING

Dear Ms. Jaye:

RE: Docket No. 990188-EI

Attached is Gulf Power Company's response to your letter dated June 9, 1999 regarding additional information in the above docket.

Sincerely,

Susan D. Ritenour
Assistant Secretary and Assistant Treasurer

lw

Enclosures

cc: Beggs and Lane
J. A. Stone, Esquire
Florida Public Service Commission
Blanca S. Bayo

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Generic investigation into requirement)
for individual electric metering by)
investor-owned electric utilities pursuant)
to Rule 25-6.049(5)(a), F.A.C.)
_____)

Docket No. 990188-EI

Gulf Power Company's
Response to Data Request dated June 9, 1999

1. Does your billing system identify residential customers by housing type? If so, list each type, with a brief description of what it includes.

Answer:

Yes. The following Premise Types are used in Gulf's Customer Service System (CSS).

- a. Apartment
- b. Condominium
- c. Double Wide Mfg Home
- d. Mobile Home
- e. Modular Home
- f. Single Family
- g. Single Wide Mfg Home
- h. Townhouse

The above premise types are self-explanatory with the exception of mobile home, which was used in the previous system. When the CSS was established in October, 1997 the premise types were expanded to include the classification of the single wide and double wide categories.

2. For each housing type, provide:
 - a. The total current number of accounts, and
 - b. The average per unit monthly kWh consumption based on the most recently available 12 months' data.

Answer:

Premise Type	Customer Count	Average kWh Consumption
Apartment	69,943	811
Condominium	1,352	773
Double Wide Mfg Home	153	1,137
Mobile Home	31,447	980
Modular Home	28	937
Single Family	208,133	1,237
Single Wide Mfg Home	164	1,039
Townhouse	191	1,029
Total	311,411	

Note: Average Consumption is based on a random sample of 10 accounts from each premise type that had at least 12 months of usage history, none of which was older than 6/1/98.

3. If your billing system does not specifically identify RV park units, indicate which group they would be included in.
 - a. Provide an estimate of the number of RV park unit residential accounts, and their average kWh consumption based on the most recently available 12 months of data.
 - b. Estimate the number of these accounts which take service under residential load management, if applicable.
 - c. Estimate the number of RV park master metered customers which are billed under a commercial rate schedule.

Answer:

Gulf does not have an identifier for RV park units. Since October, 1997 these units would be grouped as single wide manufactured homes.

- a. Without an identifier, Gulf cannot estimate the kWh consumption for these units.
- b. Gulf does not offer a residential load management service specifically designed for RV park units.
- c. Accounts are not coded master metered and a physical survey of the location would be necessary to determine the metering setup.

4. Describe the manner in which you apply the term “overnight occupancy” in determining the exemption from the individual metering requirement in Rule 25-6.049(5)(a)(4), F.A.C.

Answer:

Gulf applies the term “overnight occupancy” as defined in the rule by questioning the customer as to the intended use of the RV park. Anything more than one week would not be considered as an “overnight occupancy” and would require individual metering. Each customer is provided with an explanation of this rule and how it applies in their case.

5. Are you aware of any multi-unit residential buildings in your territory which are currently served by a master meter? If so, how many have you identified?

Answer:

To our knowledge, there are two.

6. Are these facilities billed under a commercial or a residential rate?

Answer:

Commercial.

7. Using the latest available load research results, provide comparative load shapes and an analysis comparing the 12 coincident peak demand responsibility for each residential class housing type separately, to the extent this information is available. (i.e. based on single family, multi family, mobile home, etc.)

Answer:

The 12 coincident peak demands for the residential class are developed to meet the requirements of Order No.13026 issued in Docket No. 820491-EU and are not done by housing type. The information as requested is not readily available.

8. Provide any information or studies either done by you or that you are aware of which examine the conservation effects of the requirement for individual metering of occupancy units in lieu of master metering.

Answer:

To our knowledge, such studies have not been completed.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

IN RE: Generic investigation into requirement)
for individual electric metering by investor-)
owned electric utilities pursuant to)
Rule 25-6.09(5)(a), F.A.C.)
_____)

Docket No. 990188-EI

Certificate of Service

I HEREBY CERTIFY that a true copy of the foregoing was furnished by hand delivery or the U. S. Mail this 13th day of July 1999 on the following:

Grace A. Jaye, Esquire
FL Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0863

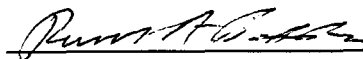
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AMY J. YOUNG

July 14, 1999

HAND DELIVERY

Grace A. Jaye, Esq.
Staff Attorney
Division of Legal Services
Florida Public Service Commission
2450 Shumard Oak Boulevard, Room 370
Tallahassee, FL 32399-0850

RECEIVED-FPSC
93 JUL 14 PM 1:30
RECORDS AND REPORTING

Re: Docket No. 990188-EI - Generic investigation into requirement for individual electric metering by investor-owned electric utilities pursuant to Rule 25-6.049(5)(a), F.A.C.

Dear Ms. Jaye:

Enclosed are Florida Power & Light Company's ("FPL") responses to the staff data request dated June 9, 1999, served in the above-referenced docket. Copies of FPL's responses to the staff data request have been served on the staff members included in the list below.

Sincerely,


Kenneth A. Hoffman

KAH/rl
Enclosure

cc: Ms. Blanca Bayo, with enclosure
Mr. Bill Walker, with enclosure
Ms. Anne Grealy, with enclosure
Mr. Bob Valdez, with enclosure
Ms. Rosemary Morley, with enclosure
Mr. Dave Wheeler, with enclosure
Mr. Reese Goad, with enclosure

Jaye.ltr

1. Does your billing system identify residential customers by housing type? If so, list each type, with a brief description of what it includes.

Answer

Yes, the FPL billing system identifies retail customers by six premise types. They are:

1. single family home and townhouse

single family home - a dwelling unit that is unattached to any other building or dwelling unit

townhouse - one or a group of attached dwelling units, which are separated only by firewalls

2. mobile home - a dwelling unit equipped to travel upon public thoroughfares

3. duplex home - two dwelling units, attached and side by side, which may or may not be separated by firewalls; the two units being constructed on the same lot

4. apartment, condominium, or cooperative - a structure, erected and framed of component structural parts and designed to contain three or more dwelling units

5. unmetered installation

6. other - (includes Common-Use Residential Areas, as well as, Commercial and Industrial Accounts.)

2. For each housing type, provide:
 a. The Total current number of customer accounts

Answer

Total Current Customer Accounts as of June 1999:

Rate	Premise Type	Count
44 Residential Service	Single Family Home & Town House	1,747,005
44 Residential Service	Mobile Home	243,255
44 Residential Service	Duplex	139,850
44 Residential Service	Apartment, condominium, or cooperative	1,130,104
44 Residential Service	Other	38,391
Total		<u>3,298,605</u>
45 Residential Service-TOU	Single Family Home & Town House	205
45 Residential Service-TOU	Mobile Home	1
45 Residential Service-TOU	Apartment, condominium, or cooperative	9
45 Residential Service-TOU	Other	45
Total		<u>260</u>
47 Residential Service-JEA	Single Family Home & Town House	202
47 Residential Service-JEA	Mobile Home	55
47 Residential Service-JEA	Other	3
Total		<u>260</u>

- b. The average per unit monthly kWh consumption based on the most recently available 12 months' data

Answer

Monthly kWh Average by Premise Type, 12 months ending June 1999:

Rate	Premise Type	Count	Monthly kWh Avg.
44 Residential Service	Single Family Home & Town House	2,222,600	1,464
44 Residential Service	Mobile Home	372,922	755
44 Residential Service	Duplex	231,763	1,002
44 Residential Service	Apartment, condominium, or cooperative	1,858,648	766
44 Residential Service	Other	40,499	819
45 Residential Service-TOU	Single Family Home & Town House	233	2,764
45 Residential Service-TOU	Mobile Home	1	1,840
45 Residential Service-TOU	Apartment, condominium, or cooperative	12	1,571
45 Residential Service-TOU	Other	45	2,194
47 Residential Service-JEA	Single Family Home & Town House	202	1,302
47 Residential Service-JEA	Mobile Home	56	933
47 Residential Service-JEA	Other	3	89

Note: The annual count by premise type is greater than the current premise count due to the turnover of accounts at specific premises that have been re-rented or sold.

3. If your billing system does not specifically identify RV park units, indicate which group they would be included in.

Answer

FPL's billing system does not uniquely identify RV park units; RV park units would be included under "Mobile Home" premise type.

- 3a. Provide an estimate of the number of RV park unit residential accounts and their average kwh consumption based on the most recent available 12 months of data.

Answer

FPL does not uniquely identify RV park units.

- 3b. Estimate the number of accounts which take service under residential load management, if applicable.

Answer

FPL does not uniquely identify RV park units.

- 3c. Estimate the number of RV park master metered customers which are billed under a commercial rate schedule.

Answer

FPL does not uniquely identify RV park master metered customers which are billed under a commercial rate.

**Florida Power & Light
FPSC Generic Investigation in
Docket No. 990188-EI
Staff's 1st Set of Questions
Question No. 4
Page 1 of 1**

4. Describe the manner in which you apply the term "overnight occupancy" in determining the exemption from the individual metering requirement in Rule 25-6.049(5)(a)(4), F.A.C. Have you experienced difficulty in administering this section of the rule?

Answer

Overnight Occupancy means use of an occupancy unit for a short term such as per day or per week where permanent residency is not established, as defined in 25-6.049(5)(b)(3) F.A.C.

FPL has not experienced any administrative difficulties or FPSC complaints regarding the overnight occupancy issue.

Florida Power & Light
FPSC Generic Investigation in
Docket No. 990188-EI
Staff's 1st Set of Questions
Question No. 5
Page 1 of 1

5. Are you aware of any multi-unit residential buildings in your territory which are currently served by a master meter? If so, how many have you identified?

Answer

FPL's billing system does not uniquely identify master metered multi-unit residential buildings, therefore, we are not aware of any multi-unit residential buildings in our territory, which are currently served by a master meter.

**Florida Power & Light
FPSC Generic Investigation in
Docket No. 990188-EI
Staff's 1st Set of Questions
Question No. 6
Page 1 of 1**

6. Are these facilities billed under a commercial or residential rate?

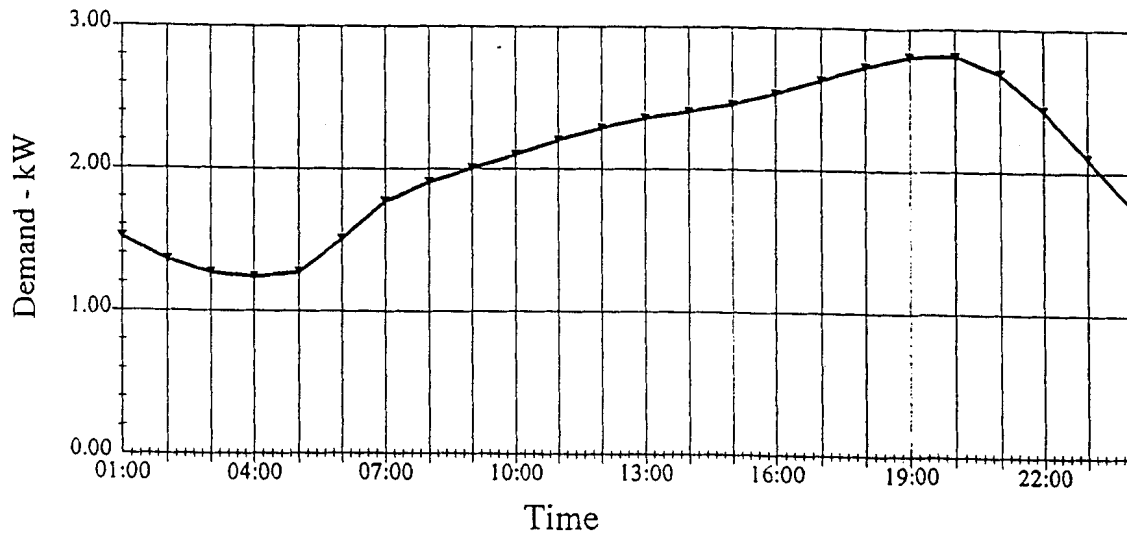
Answer

Per sheet 4.010 of the FPL Tariff, multi-unit residential buildings would be served under commercial service rates.

7. Using the latest available load research results, provide comparative load shapes and an analysis comparing the 12 coincident peak demand responsibility for each residential class housing type separately, to the extent this information is available. (i.e. based on single family, multi family, mobile home, etc.)

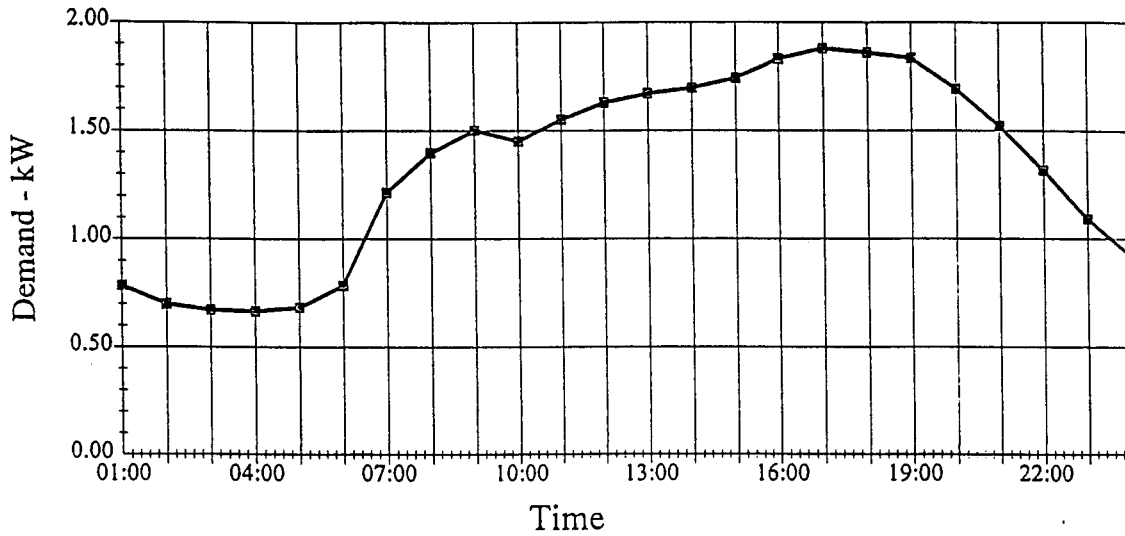
Answer

Single Family - Average Daily Profile

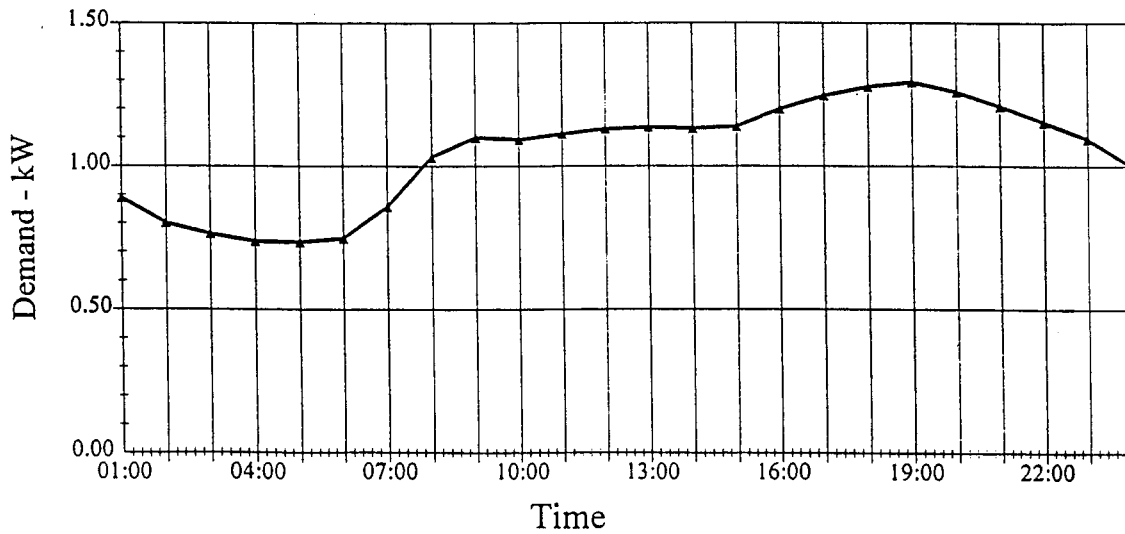


Single Family used in graph above applies to Single Family Homes and Town Houses

Mobile Homes - Average Daily Profile

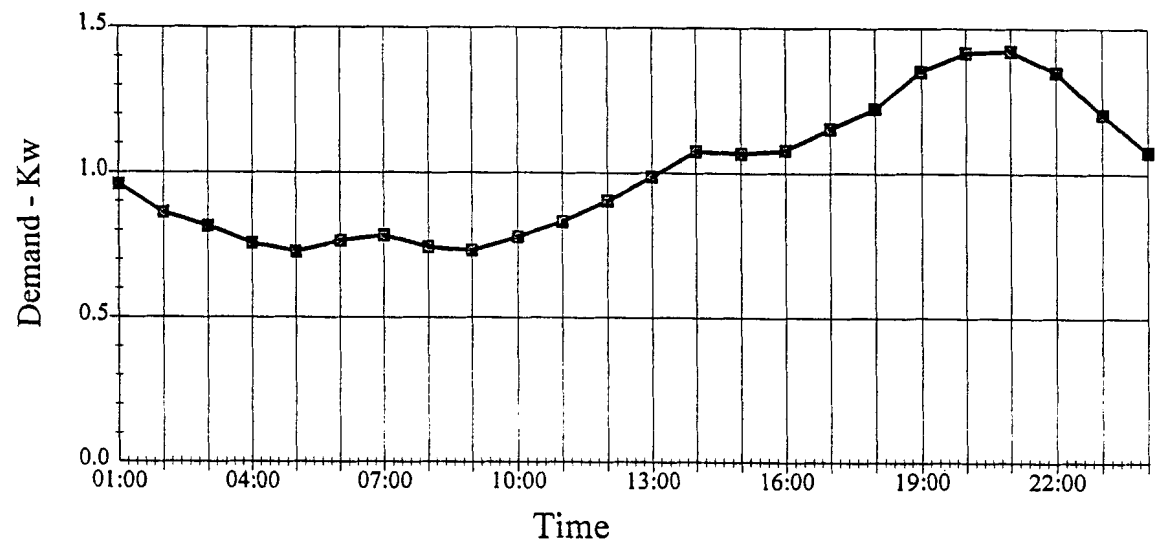


Apartments - Average Daily Profile

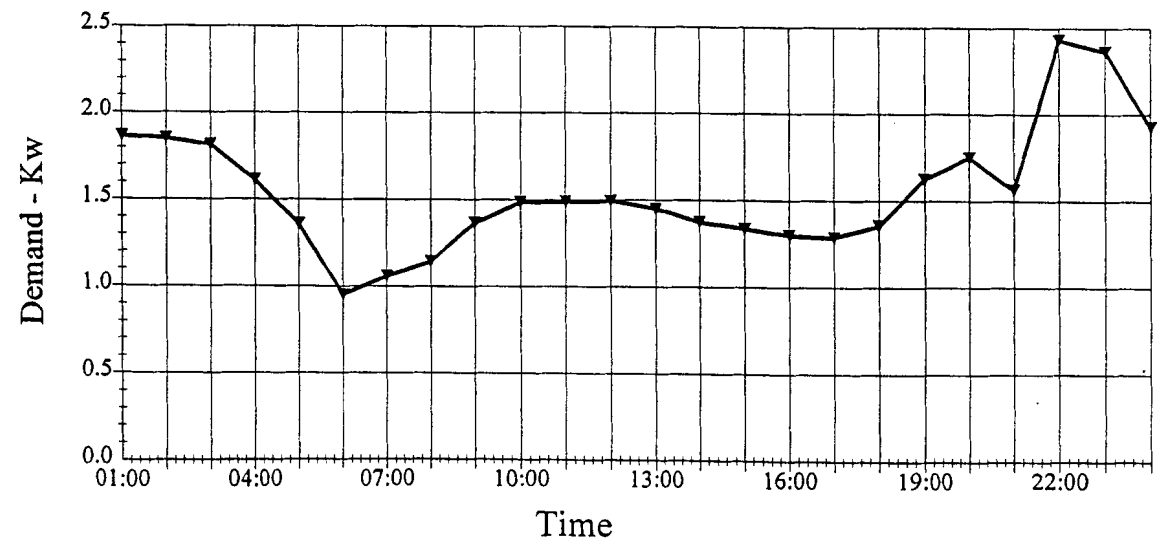


Apartments used in graph above applies to apartments, condominiums, and cooperatives

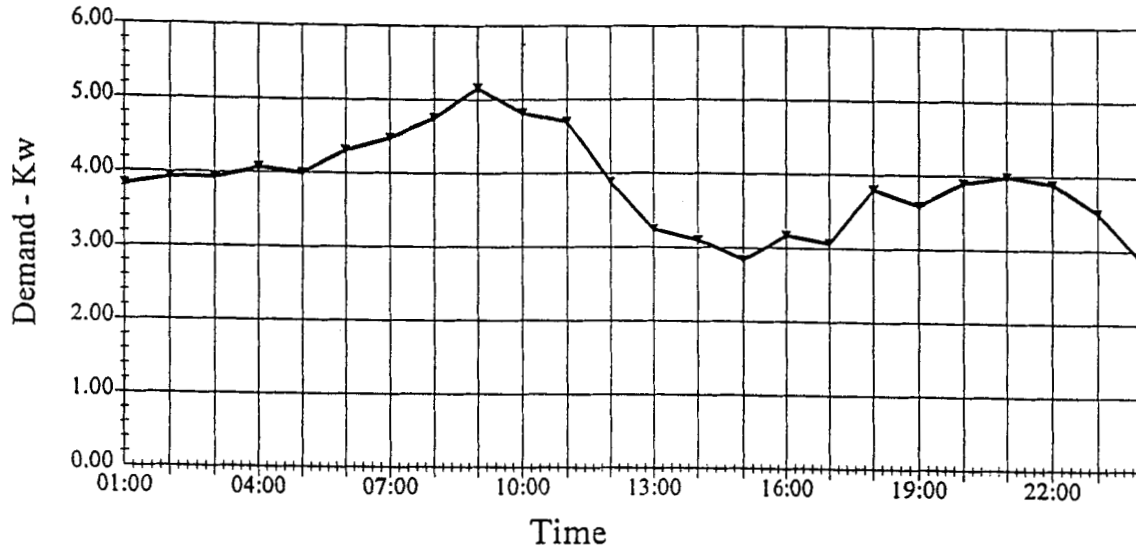
Duplex - Average Daily Profile



Other Residential - Average Daily Profile

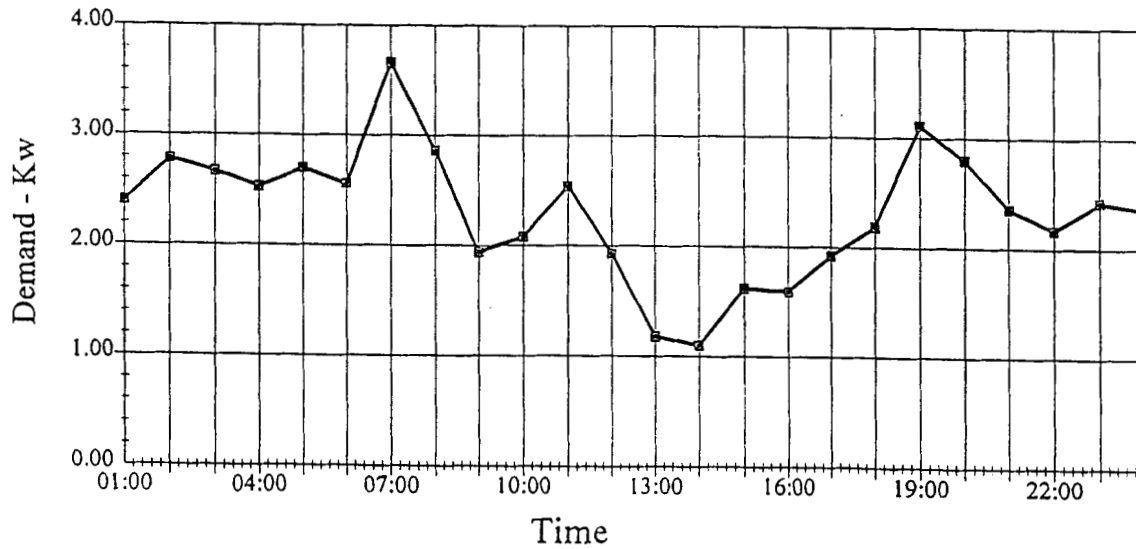


Single Family - Winter Peak - Sunday Jan 19, 1997 9:00

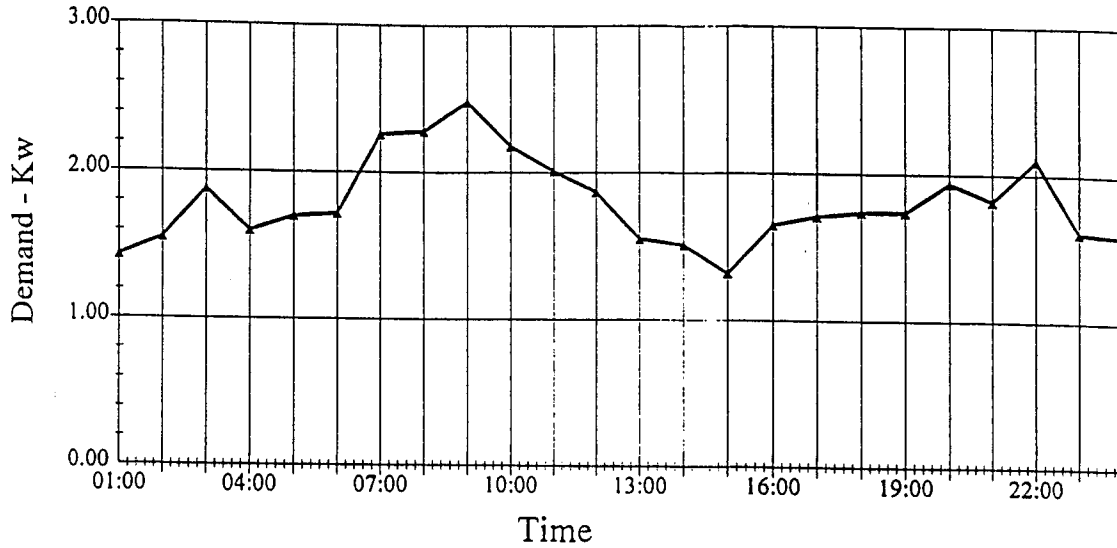


Single Family used in graph above applies to Single Family Homes and Town Houses

Mobile Homes - Winter Peak - Sunday Jan 19, 1997 9:00

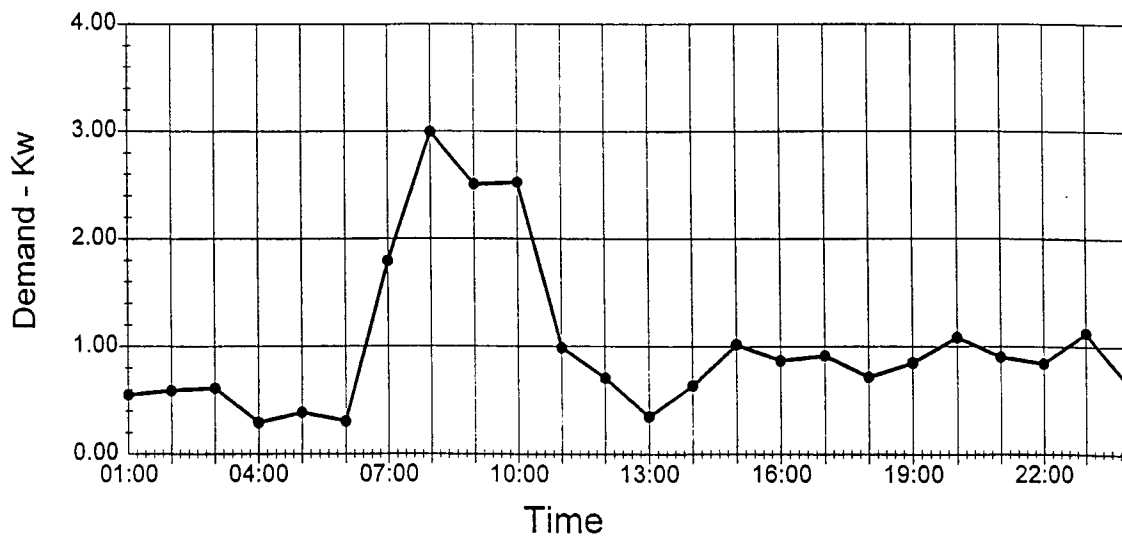


Apartments - Winter Peak - Sunday Jan 19, 1997 9:00

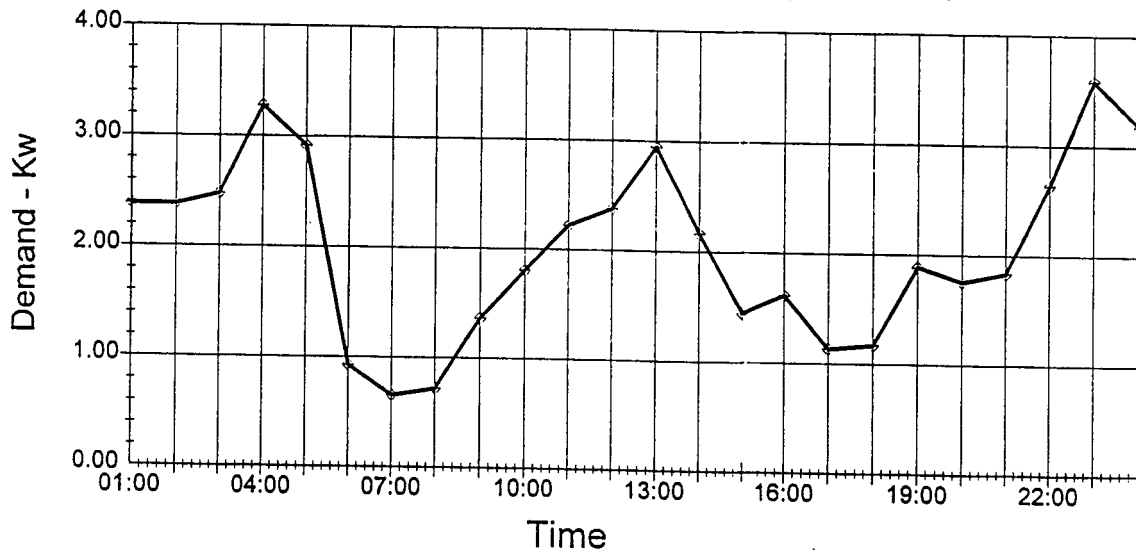


Apartments used in graph above applies to apartments, condominiums, and cooperatives

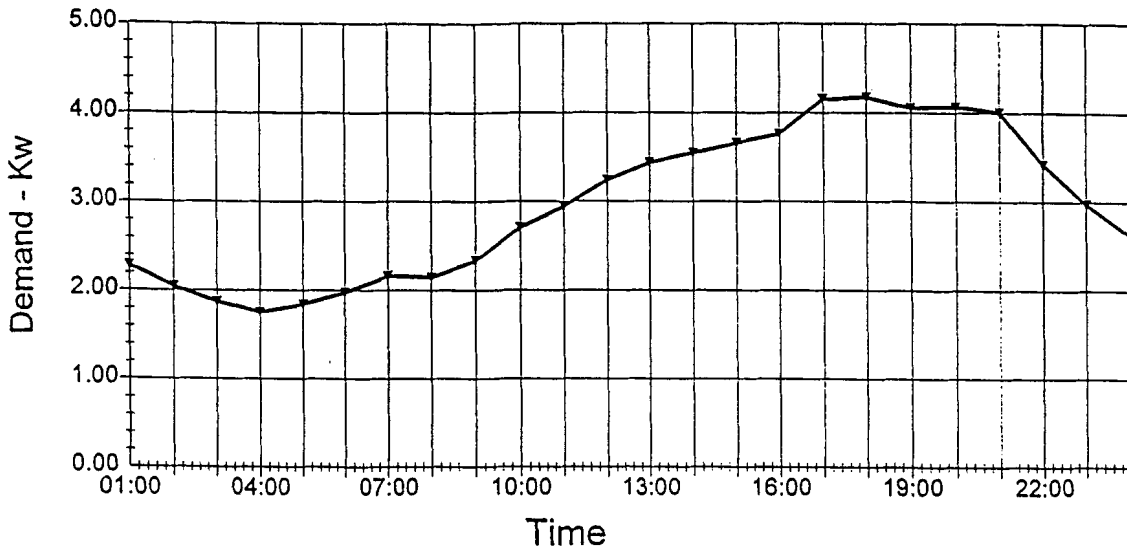
Duplex - Winter Peak - Sunday Jan 19, 1997 9:00



Other Residential - Winter Peak - Sunday Jan 19, 1997 9:00

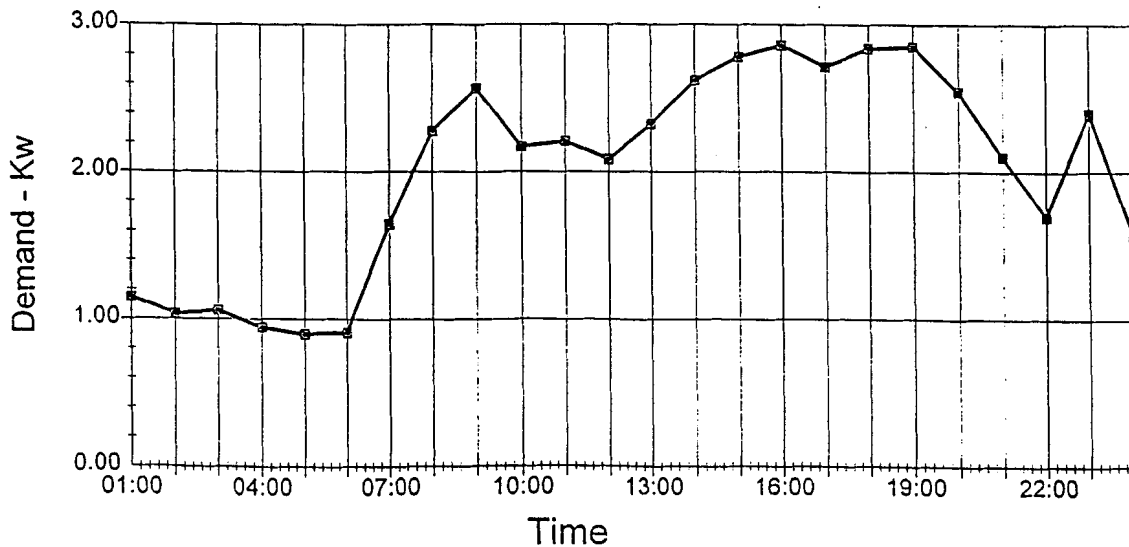


Single Family - Summer Peak - Thursday August 14, 1997 17:00

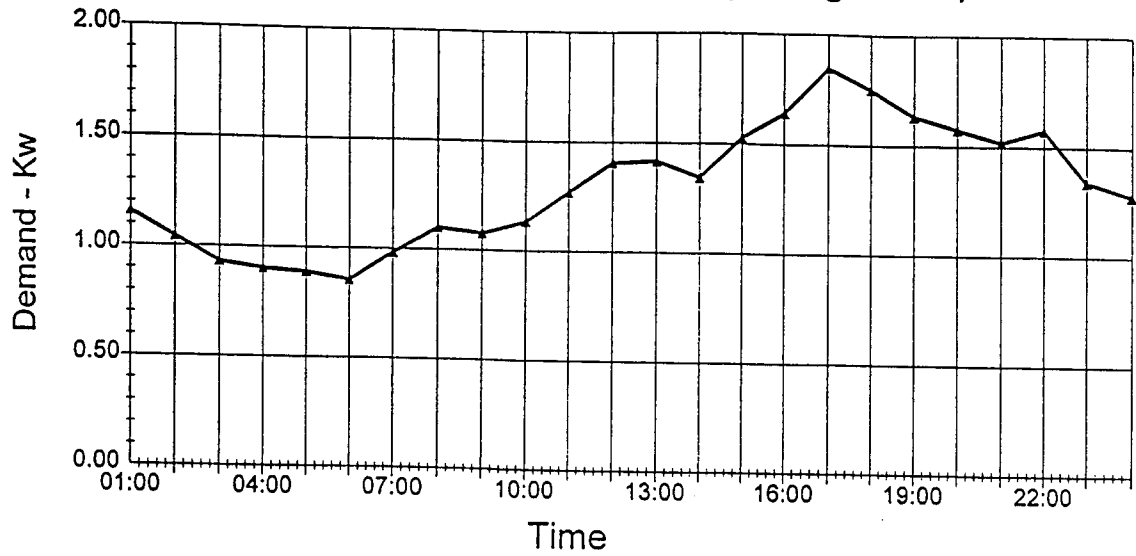


Single Family used in graph above applies to Single Family Homes and Town Houses

Mobile Homes - Summer Peak - Thursday August 14, 1997 17:00

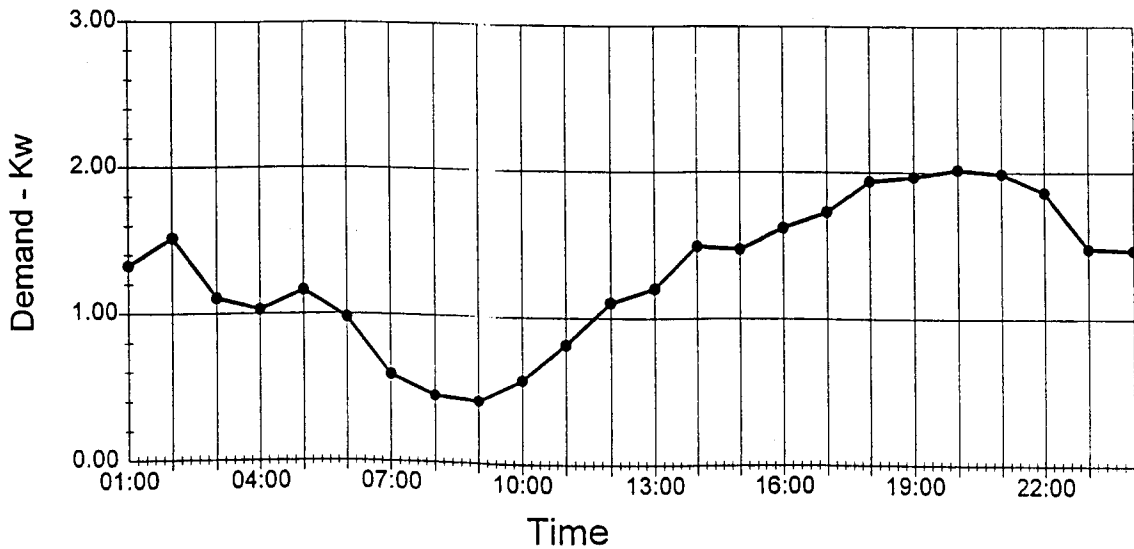


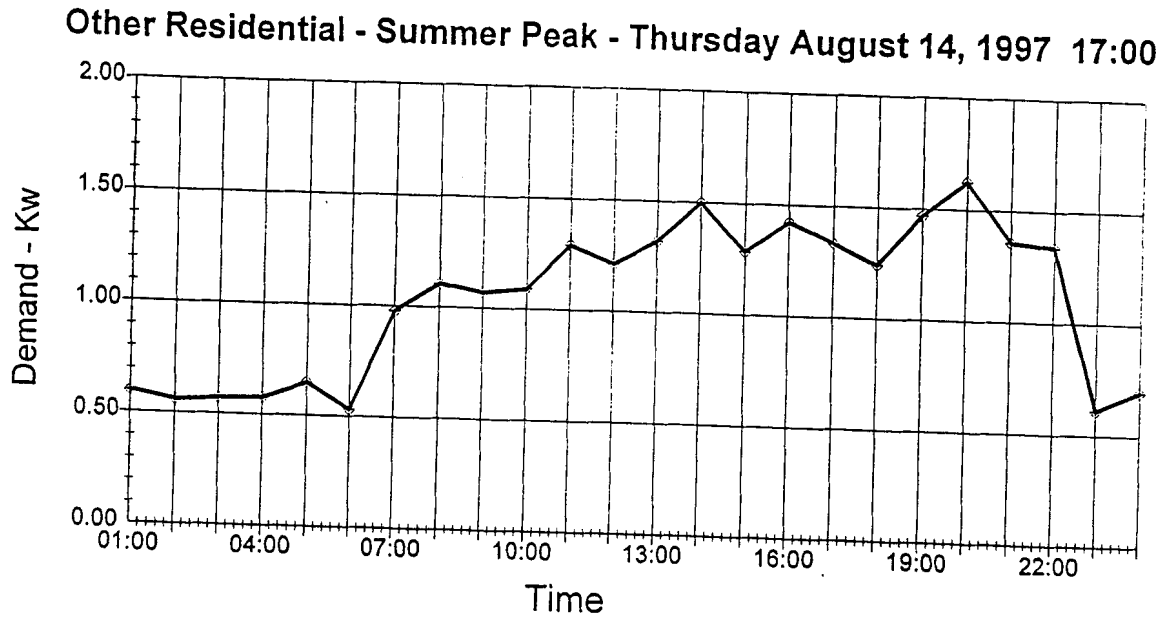
Apartments - Summer Peak - Thursday August 14, 1997 17:00



Apartments used in graph above applies to apartments, condominiums, and cooperatives

Duplex - Summer Peak - Thursday August 14, 1997 17:00





DAY OF SYSTEM PEAK	<u>1/19/97</u>	<u>2/25/97</u>	<u>3/5/97</u>	<u>4/22/97</u>	<u>5/22/97</u>	<u>6/17/97</u>	<u>7/8/97</u>	<u>8/14/97</u>	<u>9/25/97</u>	<u>9/29/97</u>	<u>11/13/97</u>	<u>12/11/97</u>	<u>Average</u>
CP HOUR ENDING	9:00	20:00	20:00	18:00	17:00	17:00	17:00	17:00	17:00	17:00	19:00	19:00	
CP (MW)	16,490	11,715	12,773	13,230	15,372	15,804	16,336	16,613	15,574	14,268	12,565	13,047	14,482

AVERAGE CP DEMAND - KW	<u>1/19/97</u>	<u>2/25/97</u>	<u>3/5/97</u>	<u>4/22/97</u>	<u>5/22/97</u>	<u>6/17/97</u>	<u>7/8/97</u>	<u>8/14/97</u>	<u>9/25/97</u>	<u>9/29/97</u>	<u>11/13/97</u>	<u>12/11/97</u>	<u>Average</u>
Single Family and Town Houses	5.16	2.38	2.76	3.07	3.36	3.54	4.24	4.16	3.59	3.15	2.35	2.71	3.37
Mobile Homes	1.94	1.45	2.01	2.32	2.66	1.90	2.09	2.72	2.64	2.65	2.22	1.84	2.20
Apartments, Condominiums, and Cooperatives	2.48	1.51	1.07	1.83	1.65	1.64	1.79	1.85	1.54	1.48	1.41	1.15	1.62
Duplex	2.51	1.10	0.80	1.44	1.43	1.58	1.34	1.73	1.63	1.61	2.46	1.49	1.59
Other Residential	1.81	2.17	1.72	1.10	0.98	1.07	1.15	1.33	1.26	1.23	1.76	1.86	1.45

AVERAGE LOAD FACTOR	<u>Jan-97</u>	<u>Feb-97</u>	<u>Mar-97</u>	<u>Apr-97</u>	<u>May-97</u>	<u>Jun-97</u>	<u>Jul-97</u>	<u>Aug-97</u>	<u>Sep-97</u>	<u>Oct-97</u>	<u>Nov-97</u>	<u>Dec-97</u>	<u>Annual</u>
Single Family and Town Houses	32%	59%	56%	53%	58%	63%	62%	62%	64%	57%	54%	50%	40%
Mobile Homes	30%	42%	39%	41%	42%	51%	47%	46%	51%	44%	35%	33%	32%
Apartments, Condominiums, and Cooperatives	38%	61%	50%	60%	57%	62%	63%	62%	66%	56%	55%	49%	42%
Duplex	25%	28%	40%	32%	47%	38%	43%	48%	44%	43%	37%	35%	33%
Other Residential	43%	47%	46%	36%	39%	37%	46%	39%	46%	46%	46%	40%	34%

AVG ENERGY ON-PEAK %	<u>Jan-97</u>	<u>Feb-97</u>	<u>Mar-97</u>	<u>Apr-97</u>	<u>May-97</u>	<u>Jun-97</u>	<u>Jul-97</u>	<u>Aug-97</u>	<u>Sep-97</u>	<u>Oct-97</u>	<u>Nov-97</u>	<u>Dec-97</u>	<u>Annual</u>
Single Family and Town Houses	28%	28%	26%	34%	34%	33%	35%	32%	35%	34%	25%	30%	32%
Mobile Homes	30%	30%	26%	37%	37%	36%	37%	34%	37%	36%	26%	30%	33%
Apartments, Condominiums, and Cooperatives	27%	27%	25%	32%	31%	31%	34%	30%	32%	32%	24%	28%	29%
Duplex	29%	25%	23%	33%	33%	31%	33%	31%	33%	32%	23%	29%	30%
Other Residential	24%	22%	22%	26%	21%	29%	35%	28%	24%	25%	22%	26%	25%

NO. OF PREMISES ANALYZED	<u>Jan-97</u>	<u>Feb-97</u>	<u>Mar-97</u>	<u>Apr-97</u>	<u>May-97</u>	<u>Jun-97</u>	<u>Jul-97</u>	<u>Aug-97</u>	<u>Sep-97</u>	<u>Oct-97</u>	<u>Nov-97</u>	<u>Dec-97</u>	<u>Annual</u>
Single Family and Town Houses	108	108	108	108	108	108	108	108	108	108	108	108	108
Mobile Homes	14	14	14	14	14	14	14	14	14	14	14	14	14
Apartments, Condominiums, and Cooperatives	62	62	62	62	62	62	62	62	62	62	62	62	62
Duplex	7	7	7	7	7	7	7	7	7	7	7	7	7
Other Residential	5	5	5	5	5	5	5	5	5	5	5	5	5

8. Provide any information or studies either done by you or that you are aware of which examine the conservation effects of the requirement for individual metering of occupancy units in lieu of master metering.

Answer

Information on the conservation effects of individual versus master metering is available from the following:

"Energy Billing, Cultural Variation and Residential Energy Consumption", Bruce Hackett and Loren Lutzenhiser, August 1989

"It is now well-established that the change from master to individual metering of utilities results in a considerable drop in energy consumption, although the magnitude of the change varies considerably (McClelland, 1982; Nelson, 1981; Rosenberg, 1984). Our first study of such conversion, in an all-electric apartment complex in Davis, showed a 36% reduction (with weather effects controlled) in energy used in the year following the change compared to the year that preceded it (Hackett, 1984). The results of the present study seem to support those findings."

"Energy Probe's Position Paper on Energy Conservation Through Elimination of Bulk Metering and Flat Rate Water Heaters, Submission to the Ontario Market Design Committee, Environmental Subcommittee", Tom Adams, May 25, 1998

Paper reports that bulk (i.e. master) metering of apartments results in increase in energy use of 40%.

"Tip For Renters", Department of Energy, Energy Conservation and Management Division
[<http://www.emnrd.state.nm.us/ecmd/html/Publications/HomeEnergy/HEGPg30.htm>]

Extract:

Many multi-family rental properties, such as apartments and mobile home parks are served by on master meter. Energy is not metered for individual households. Those who save and those who squander pay the same.

Separate metering is a method of allocating monthly energy costs to residents on an apartment-to-apartment basis. Some property owners use this system, and others don't. Try to find an apartment where rent and utility costs are separate.

Your best bet is control through the individual metering of your personal energy use.

"Top 100 NYSERDA R&D Program Achievements", New York State Energy Research and Development Authority [<http://www.nyserda.org/programs.html>]

Extract:

When master-metered buildings are converted to submetering, 18-26% in electric energy savings can be realized.

"Market Failure and Energy Policy, A Rationale For Selective Conservation", Anthony C. Fisher and Michael Rothkolf, *Energy Policy*, August 1989,

Extract from page 403:

The difficulty is compounded if apartments are not individually metered and billed; the [conservation] benefits go to the landlord. For the landlord, the problem is that the savings in fuel bills he expects from an investment in conservation can be frittered away by the energy-using practices of tenants – turning up the thermostat, opening windows, and so on.

*Nonage
Updated
8-12-99*

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

Docket Number: 990188-EI
Filed: August 11, 1999

In Re: GENERIC INVESTIGATION INTO
THE REQUIREMENT FOR INDIVIDUAL
ELECTRIC METERING BY INVESTOR-
OWNED ELECTRIC UTILITIES PURSUANT
TO RULE 25-6.049(5)(a), FLORIDA
ADMINISTRATIVE CODE

NOTICE OF CHANGE OF ADDRESS

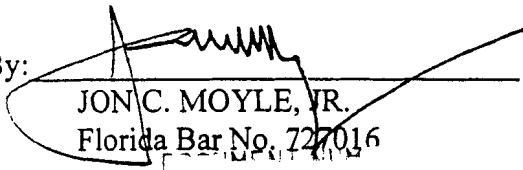
The attorneys for VALENCIA AREA CONDOMINIUM ASSOCIATION, INC. and
POINT MANAGEMENT, INC., Moyle, Flanigan, Katz, Kolins, Raymond & Sheehan, P.A., file
this Notice of Change of Address. All future pleadings and correspondence should be sent to the
firm at the following address:

The Perkins House
118 North Gadsden Street
Tallahassee, FL 32301 - 1567

The telephone number (850-681-3828) and facsimile number (850-681-8788) will remain the same.

MOYLE, FLANIGAN, KATZ, KOLINS,
RAYMOND & SHEEHAN, P.A.
The Perkins House
118 North Gadsden Street
Tallahassee, FL 32301
Telephone: (850) 681-3828
Facsimile: (850) 681-8788
Attorneys for Valencia Area
Condominium Association, Inc.
and Point Management, Inc.

*8-12-99;
copy to
PAR/Wangy*

By: 
JON C. MOYLE, JR.
Florida Bar No. 727016

*did not
list complete
name - leave as listed
space - leave as listed*

see ↓

*Moyle, Flanigan, et al
Old*

*m/ 210 South Monroe Street
Tallahassee, FL 32301-1824*

*m
AG
ND
OS
EAB/Juriff*

Done 8/12/99

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Notice of Change of Address has been furnished by hand delivery* or by U.S. Mail to the following parties of record this 11th day of August, 1999:

Robert V. Elias*
Florida Public Service Commission
Division of Legal Services
2540 Shumard Oak Boulevard
Gunter Building, Room 370N
Tallahassee, Florida 32399-0850

Michelle Hershel
Florida Electric Cooperatives
Association, Inc.
Posts Office Box 590
Tallahassee, FL 32302

Bill Walker
Florida Power & Light Company
215 South Monroe Street, Suite 810
Tallahassee, FL 32301-1859

James A. McGee
Florida Power Corporation
Post Office Box 14042 (A5A)
St. Petersburg, FL 33733-4042

John T. English
Florida Public Utilities Company
Post Office Box 3395
West Palm Beach, FL 33402-3395

Susan D. Ritenour
Gulf Power Company
One Energy Place
Pensacola, FL 32520-0780

Gail Kamaras, Director
Legal Environmental Assistance
Foundation
1114-E Thomasville Road
Tallahassee, FL 32303-6290

Angela Llewellyn
Regulatory Affairs
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111



JON C. MOYLE, JR.

MEMORANDUM RECEIVED--FPSC

OCTOBER 12, 1999 OCT 12 PM 1:13

RECORDS AND REPORTING

TO: DIVISION OF RECORDS AND REPORTING

FROM: DIVISION OF LEGAL SERVICES (JAYE) *JAYE RVE*

RE: DOCKET NO. 990188-EI - GENERIC INVESTIGATION INTO THE REQUIREMENT FOR INDIVIDUAL ELECTRIC METERING BY INVESTOR-OWNED ELECTRIC UTILITIES PURSUANT TO RULE 25-6.049(5)(A), FLORIDA ADMINISTRATIVE CODE.

Attached is a NOTICE OF STAFF WORKSHOP to be issued in the above-referenced docket. (Number of pages in notice - 3)

GAJ/js
 Attachment
 cc: Division of Electric and Gas (Wheeler, Goad)
 I:990188nw.gaj

pg 1+2

84/13

FPSC, CLK - CORRESPONDENCE
~~X~~Administrative Parties Consumer
 DOCUMENT NO. 08317-06
 DISTRIBUTION: _____

M E M O R A N D U M

OCTOBER 28, 1999

RECEIVED-FPSC

99 OCT 28 AM 10:07

RECORDS AND
REPORTING

TO: DIVISION OF RECORDS AND REPORTING

FROM: DIVISION OF LEGAL SERVICES (JAYE) *RVE*

RE: DOCKET NO. 990188-EI - GENERIC INVESTIGATION INTO THE
REQUIREMENT FOR INDIVIDUAL ELECTRIC METERING BY INVESTOR-
OWNED ELECTRIC UTILITIES PURSUANT TO RULE 25-6.049(5) (A),
FLORIDA ADMINISTRATIVE CODE.

Attached is a NOTICE OF CANCELLATION OF STAFF WORKSHOP to be
issued in the above-referenced docket. (Number of pages in notice
- 2)

GAJ/js
Attachment
cc: Division of Electric and Gas (Wheeler, Goad)
I:990188nw.gaj

84/13

FPSC, CLK - CORRESPONDENCE
 Administrative Parties Consumer
DOCUMENT NO. 08317-06
DISTRIBUTION: _____



FECA

Florida Electric Cooperatives Association, Inc.

2916 Apalachee Parkway
~~P.O. Box 590~~
Tallahassee, Florida 32308
(850) 877-6166
FAX: (850) 656-5485

07 MAY -9 11 052

May 8, 2001

Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

960786 981827
980706, 990188
991462, 000824
000612, 001148
00178, 010001
010283, 010441

RECEIVED
01 MAY -9
RECEIVED-PPSC
AH 10:15

Dear Sir or Madam:

Please change mailing address on all correspondence you send us from P. O. Box 590, to **2916 Apalachee Parkway, Tallahassee, FL 32301.**

Thank you for taking care of this matter right away.

Sincerely,

Harriet K. Dickson

Harriet K. Dickson
Secretary

Done 5/09/01



RECEIVED-FPSC
02 APR 17 PM 12:56
COMMISSION
CLERK

April 9, 2002

Ms. Blanco S. Bayo, Director
Division of Clerk and Administrative Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

990188, 000824, 001574, 010283,
010534, 010908, 011340, 011351,
011605, 020001, 020002, 020007,
020084, 020175, 020233, 020243,
020244, 020262, 020263, 020284,
020332

RE: Florida Power & Light Tallahassee Office
Change in Fax/Phone Numbers

Dear Ms. Bayo:

The Florida Power & Light (FPL) Tallahassee Office recently installed a new phone system, resulting in a change in our local phone and fax numbers. Please reflect the following changes on your master list for all correspondence to William G. Walker and the FPL Tallahassee Office:

Office Phone Number: 850-521-3900

Fax Number: 850-521-3939

Thank you for accommodating this request. If you have any questions, please feel free to contact me at 850-521-3900.

Sincerely,

Lynne D. Adams
Principal Regulatory Coordinator

Done 4/17/02

AMS.

AUSLEY & McMULLEN

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET
P.O. BOX 391 (ZIP 32302)
TALLAHASSEE, FLORIDA 32301
(850) 224-9118 FAX (850) 222-7560

224-9115

990188-EI

MEMORANDUM

TO: FPSC Clerk's Office

FROM: Pat Pottle

RE: Change of Address for Mailings going to Tampa Electric Company

DATE: May 9, 2005

I would like to request that you change, in all instances, all information sent to Tampa Electric Company from the FPSC. All information should be sent to:

Angela L. Llewellyn
Supervisor, Regulatory Affairs
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111

EI 806

Thank you for your assistance.

COMMISSION
CLERK

05 MAY -9 PM 12:36

RECEIVED-FPSC

5-9-05

*mail already reflects this addr for a long time
Cy to CCA/Pena for dbts*

Spoke w Ms. Pottle, advised we have this addr. She is to check to see what was being mailed & from whom and advise

*All open docket
have the above address.
Forwarding to GCL
for updating their
list. 05/10/05
KMF*

Docket Index Listing

990188-EI ✓
020233-EI ✓
040086-EI ✓
041103-EI ✓
041375-EI ✓
041376-EI ✓
041408-EU ✓
050007-EI ✓
050058-EI ✓
050225-EI ✓
050254-EI ✓
050293-EQ ✓
050319-EI ✓

Marguerite Lockard

PSC-06-0426-FOF-EI

From: Wanda Terrell
Sent: Friday, May 19, 2006 9:47 AM
To: CCA - Orders / Notices
Subject: Order / Notice Submitted

Date and Time: 5/19/2006 9:43:00 AM
Docket Number: 990188-EI
Filename / Path: I:\990188ord.lth.doc

Order Closing Docket has been copied to GCOrders Library and is ready to be issued.

Attorney: Larry Harris
Number of pages: 2

9/4